



SEMS DocID

2332205

SAMPLE RECEIPT**ORIGINAL
(Red)**

On 5 February, 1981, Ecology & Environment, Inc., representative non responsive based on revised scope received permission from Dave Beattie to remove material from his/her property, contained in four (4) 1-quart glass organic sample bottle(s), two (2) 40 ml glass volatile organic sample bottle(s), no 8 oz. glass hazardous sample jar(s) and one (1) inorganic 1-quart polyethylene sample bottle(s).

Doreen A. 5 Feb 81
Property Owner, Signature & Date

non responsive based on revised scope

2/5/81
Ecology & Environment, Inc.,
Representative Signature & Date

8101-17-13

SAMPLE ID 08
 LAB ID 20844A1
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/22/81
 STD ID DFTPP1263 PHEN310
 CONC FACTOR 1000

SAMPLE ID C0408
 LAB ID 20844B1
 DATE EXTRACTED 2/16/81
 DATE INJECTED 2/26/81
 STD ID DFTPP103 BNSTD053
 CONC FACTOR 1000

ORIGINAL
(Red)

<u>Acid Compounds</u>	<u>ug/l</u>
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

<u>Base/Neutral Compounds</u>	<u>ug/l</u>
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	ND
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

SAMPLE ID 0408
 LAB ID 20448V1
 DATE INJECTED 2/9/81
 STD ID DFTPP1251 VOA115
 CONC. FACTOR

SAMPLE ID C0408
 LAB ID 20844 TRACE #2210
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/9/81
 STD ID TRACE #2213
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	*
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	38
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	*
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ORIGINAL (Red) ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordanes	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

WEST COAST TECHNICAL SERVICE INC.
ORGANICS ANALYSIS DATA SHEET - Page 3

QC Report No: 26

Sample Number
C0408

ORIGINAL
(Red)

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	59	50	118
1-Chloro-2-Bromopropane	VOA	55	50	110
Toluene - d8	VOA	57	50	114
2-Fluorophenol	ACID	8	142	6
Phenol - d5	ACID	2	103	2
Nitrobenzene - d5	B/N	65	98	66
2-Fluorobiphenyl	B/N	88	100	88
Naphthalene-D8	B/N	64	102	63

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA #187	NO GOOD FIT
2.		UNKNOWN	ACID #60	NO GOOD FIT
3.		UNKNOWN	ACID #73	NO GOOD FIT
4.		UNKNOWN	ACID #87	NO GOOD FIT
5.		UNKNOWN	ACID #107	NO GOOD FIT
6.		UNKNOWN	ACID #133	NO GOOD FIT
7.		UNKNOWN	ACID #144	NO GOOD FIT
8.		UNKNOWN	ACID #159	NO GOOD FIT
9.		UNKNOWN	ACID #165	NO GOOD FIT
10.		UNKNOWN	ACID #170	NO GOOD FIT
11.		UNKNOWN	ACID #190	NO GOOD FIT
12.		3,3,3-TRICHLORO-1-PRO-		
13.		PENE	B/N #44	866
14.		UNKNOWN	B/N #273	NO GOOD FIT
15.				
16.				
17.				
18.				
19.				
20.				

Base/Neutral Compounds		ug/l
41B	4-bromophenyl phenyl ether	ND
42B	bis(2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	4247
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	*
69B	di-n-octyl phthalate	*
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a) anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

SAMPLE ID C0409
 LAB ID 20844V2
 DATE INJECTED 2/9/81
 STD ID DFTPP1251 VOA115
 CONC. FACTOR

SAMPLE ID C0409
 LAB ID 20844 TRACE #2211
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/9/81
 STD ID TRACE #2213
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	36
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ORIGINAL (Red) ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 26

Sample Number
C0409

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	57	50	114
1-Chloro-2-Bromopropane	VOA	53	50	106
Toluene - d8	VOA	54	50	108
2-Fluorophenol	ACID	25	142	18
Phenol - d5	ACID	ND	103	ORIGINAL
Nitrobenzene - d5	B/N	64	98	66(Red)
2-Fluorobiphenyl	B/N	84	100	89
Naphthalene-D8	B/N	74	102	73

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#43	NO GOOD FIT
2.		METHYLCYCLOPENTANE	VOA#185	837
3.		1,1'-OXYBIS-2-CHLORO-		
4.		ETHANE	VOA#383	917
5.		UNKNOWN	ACID#61	NO GOOD FIT
6.		UNKNOWN	ACID#107	NO GOOD FIT
7.		UNKNOWN	ACID#159	NO GOOD FIT
8.		UNKNOWN	ACID#190	NO GOOD FIT
9.		UNKNOWN	ACID#213	NO GOOD FIT
10.		DI-N-BUTYL PHTHALATE	ACID#253	917
11.		BIS(2-ETHYLHEXYL)-		
12.		PHTHALATE	ACID#445	CONFIRMED
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

SAMPLE ID 010
 LAB ID 20844A3
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/23/81
 STD ID DFTPP1264 PHEN311
 CONC FACTOR 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID C0410
 LAB ID 20844B3
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/26/81
 STD ID DFTPP103 BNSTD053
 CONC FACTOR 1000

ORIGINAL

Base/Neutral Compounds	(Red)	ug/l
41B 4-bromophenyl phenyl ether	ND	
42B bis(2-chloroisopropyl) ether	ND	
43B bis (2-chloroethoxy) methane	ND	
52B hexachlorobutadiene	ND	
53B hexachlorocyclopentadiene	ND	
54B isophorone	ND	
55B naphthalene	ND	
56B nitrobenzene	ND	
61B N-nitrosodimethylamine	ND	
62B N-nitrosodiphenylamine	ND	
63B N-nitrosodi-n-propylamine	ND	
66B bis (2-ethylhexyl) phthalate	17	
67B butyl benzyl phthalate	ND	
68B di-n-butyl phthalate	*	
69B di-n-octyl phthalate	ND	
70B diethyl phthalate	ND	
71B dimethyl phthalate	ND	
72B benzo(a) anthracene	ND	
73B benzo(a)pyrene	ND	
74B 3,4-benzofluoranthene	ND	
75B benzo(k)fluoranthene	ND	
76B chrysene	ND	
77B acenaphthylene	ND	
78B anthracene	ND	
79B benzo(ghi)perylene	ND	
80B fluorene	ND	
81B phenanthrene	ND	
82B dibenzo(a,h)anthracene	ND	
83B indeno(1,2,3-cd)pyrene	ND	
84B pyrene	ND	
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND	

SAMPLE ID 0410
 LAB ID 20844V3
 DATE INJECTED 2/9/81
 STD ID DFTPP1251 VOA115
 CONC. FACTOR

SAMPLE ID C0410
 LAB ID 20844 TRACE #2215
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/9/81
 STD ID TRACE #2213
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	*
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	38
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ORIGINAL (Red)	ug/l
89P aldrin		ND
90P dieldrin		ND
91P chlordane		ND
92P 4,4'-DDT		ND
93P 4,4'-DDE		ND
94P 4,4'-DDD		ND
95P alpha-endosulfan		2.0**
96P beta-endosulfan		ND
97P endosulfan sulfate		ND
98P endrin		ND
99P endrin aldehyde		ND
100P heptachlor		ND
101P heptachlor epoxide		ND
102P alpha-BHC		ND
103P beta-BHC		ND
104P gamma-BHC		ND
105P delta-BHC		ND
106P PCB-1242		ND
107P PCB-1254		ND
108P PCB-1221		ND
109P PCB-1232		ND
110P PCB-1248		ND
111P PCB-1260		ND
112P PCB-1016		ND
113P toxaphene		ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 26

Sample Number
C0410

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	51	50	102
1-Chloro-2-Bromopropane	VOA	47	50	94
Toluene - d8	VOA	51	50	102
2-Fluorophenol	ACID	3	142	2
Phenol - d5	ACID	0	103	0
Nitrobenzene - d5	B/N	53	98	54
2-Fluorobiphenyl	B/N	67	100	67
Naphthalene-D8	B/N	61	102	60

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		TETRAHYDROFURAN	VOA#116	998
2.		1,1,2,2-TETRACHLORO-		ORIGINAL (Red)
3.		ETHANE	ACID#59	
4.		1,2,3-TRICHLOROPROPANE	ACID#51	961
5.		UNKNOWN	B/N#275	NO GOOD FIT
6.		UNKNOWN	B/N#370	NO GOOD FIT
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

SAMPLE ID C0411
 LAB ID 20844A4
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/23/81
 STD ID DFTPP1264 PHEN311
 CONC FACTOR 800

Acid Compounds ug/l

21A 2,4,6-trichlorophenol ND
 22A p-chloro-m-cresol ND
 24A 2-chlorophenol ND
 31A 2,4-dichlorophenol ND
 34A 2,4-dimethylphenol ND
 57A 2-nitrophenol ND
 58A 4-nitrophenol ND
 59A 2,4-dinitrophenol ND
 60A 4,6-dinitro-o-cresol ND
 64A pentachlorophenol ND
 65A phenol ND

Base/Neutral Compounds

1B acenaphthene ND
 5B benzidine ND
 8B 1,2,4-trichlorobenzene ND
 9B hexachlorobenzene ND
 12B hexachloroethane ND
 18B bis(2-chloroethyl)ether ND
 20B 2-chloronaphthalene ND
 25B 1,2-dichlorobenzene ND
 26B 1,3-dichlorobenzene ND
 27B 1,4-dichlorobenzene ND
 28B 3,3'-dichlorobenzidine ND
 35B 2,4-dinitrotoluene ND
 36B 2,6-dinitrotoluene ND
 37B 1,2-diphenylhydrazine
 (as azobenzene) ND
 39B fluoranthene ND
 40B 4-chlorophenyl phenyl ether ND

SAMPLE ID C0411
 LAB ID 20844B5
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/26/81
 STD ID DFTPP103 BNSTD053
 CONC FACTOR 800

ORIGINAL
 (Red)
 ug/l

Base/Neutral Compounds

41B 4-bromophenyl phenyl ether ND
 42B bis(2-chloroisopropyl) ether ND
 43B bis(2-chloroethoxy) methane ND
 52B hexachlorobutadiene ND
 53B hexachlorocyclopentadiene ND
 54B isophorone ND
 55B naphthalene ND
 56B nitrobenzene ND
 61B N-nitrosodimethylamine ND
 62B N-nitrosodiphenylamine ND
 63B N-nitrosodi-n-propylamine ND
 66B bis(2-ethylhexyl) phthalate ND
 67B butyl benzyl phthalate ND
 68B di-n-butyl phthalate *
 69B di-n-octyl phthalate ND
 70B diethyl phthalate ND
 71B dimethyl phthalate ND
 72B benzo(a) anthracene ND
 73B benzo(a)pyrene ND
 74B 3,4-benzofluoranthene ND
 75B benzo(k)fluoranthene ND
 76B chrysene ND
 77B acenaphthylene ND
 78B anthracene ND
 79B benzo(ghi)perylene ND
 80B fluorene ND
 81B phenanthrene ND
 82B dibenzo(a,h)anthracene ND
 83B indeno(1,2,3-cd)pyrene ND
 84B pyrene ND
 129B 2,3,7,8-tetrachlorodibenzo-
 p-dioxin ND

SAMPLE ID C0411
 LAB ID 20844V4
 DATE INJECTED 2/9/81
 STD ID DFTPP1252 VOA115
 CONC. FACTOR

SAMPLE ID C0411
 LAB ID 20844 TRACE #2217
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/9/81
 STD ID TRACE #2218
 CONC. FACTOR 50

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	37
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ORIGINAL ND
94P 4,4'-DDD	(Red) ND
95P alpha-endosulfan	2.4**
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 27

Sample Number
C0411

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	48	50	96
1-Chloro-2-Bromopropane	VOA	45	50	90
Toluene - d8	VOA	47	50	94
2-Fluorophenol	ACID	84	142	59
Phenol - d5	ACID	46	103	45
Nitrobenzene - d5	B/N	72	98	73
2-Fluorobiphenyl	B/N	88	100	88
Naphthalene-D8	B/N	76	102	75

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#46	NO GOOD FIT
2.		UNKNOWN	VOA#185	NO GOOD FIT
3.		3,3,3-TRICHLORO-1-		ORIGINAL (Red)
4.		PROPENE	ACID#44	
5.		1,2,3-TRICHLOROPROPANE	ACID#54	944
6.		1,1,2,2-TETRACHLORO-		
7.		ETHANE	ACID#63	996
8.		UNKNOWN	ACID#193	NO GOOD FIT
9.		UNKNOWN	B/N#40	NO GOOD FIT
10.		UNKNOWN	B/N#274	NO GOOD FIT
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

SAMPLE ID C0412
 LAB ID 20844A7
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/23/81
 STD ID DFTPP1264 PHEN311
 CONC FACTOR 1000

SAMPLE ID C0412
 LAB ID 20844B7
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/26/81
 STD ID DFTPP103 BNSTD053
 CONC FACTOR 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	14

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

ORIGINAL
(Red)

SAMPLE ID 00412
 LAB ID 20844V5
 DATE INJECTED 2/9/81
 STD ID DFTPP1251 VOA115
 CONC. FACTOR

SAMPLE ID 00412
 LAB ID 20844 TRACE #2223
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/10/81
 STD ID TRACE #2222
 CONC. FACTOR 50

<u>Volatiles</u>	<u>ug/l</u>
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V 1,1,1,2-tetrachloroethane	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	*
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	38
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	31
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	*
87V trichloroethylene	ND
88V vinyl chloride	ND

<u>Pesticides</u>	<u>ug/l</u>
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan ORIGINAL	0.3
96P beta-endosulfan (Red)	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 27

Sample Number
C0412

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	48	50	96
1-Chloro-2-Bromopropane	VOA	46	50	92
Toluene - d8	VOA	47	50	94
2-Fluorophenol	ACID	58	142	41
Phenol - d5	ACID	28	103	27
Nitrobenzene - d5	B/N	72	98	73
2-Fluorobiphenyl	B/N	83	100	83 ORIGINAL
Naphthalene-D8	B/N	74	102	73 (Red)

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#45	NO GOOD FIT
2.		2-METHYLPROPANE	VOA#61	917
3.		METHYLCYCLOPENTANE	VOA#186	907
4.		1,1,2,2-TETRACHLORO-		
5.		ETHANE	ACID#58	1000
6.		2-METHYLPROPANOIC ACID	ACID#79	958
7.		UNKNOWN	ACID#98	NO GOOD FIT
8.		UNKNOWN	ACID#119	NO GOOD FIT
9.		BENZOIC ACID	ACID#226	920
10.		BENZENE ACETIC ACID	ACID#251	971
11.		BENZENE PROPANOIC ACID	ACID#263	992
12.		UNKNOWN	ACID#298	NO GOOD FIT
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

SAMPLE ID C0413
 LAB ID 20844A8
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/23/81
 STD ID DFTPP1264 PHEN312
 CONC FACTOR 1000

SAMPLE ID C0413
 LAB ID 20844B8
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/26/81
 STD ID DFTPP103 BNSTD053
 CONC FACTOR 1000

<u>Acid Compounds</u>	<u>ug/l</u>
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

<u>Base/Neutral Compounds</u>	<u>ug/l</u>
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

SAMPLE ID C0413
 LAB ID 20844V8
 DATE INJECTED 2/9/81
 STD ID DFTPP1251 VOA115
 CONC. FACTOR

SAMPLE ID C0413
 LAB ID 20844 TRACE #2227
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/10/81
 STD ID TRACE #2228
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V 1,1,1,2-tetrachloroethane	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	36
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

WEST COAST TECHNICAL SERVICE INC.
ORGANICS ANALYSIS DATA SHEET - Page 3

QC Report No: 27

Sample Number
C0413

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	53	50	106
1-Chloro-2-Bromopropane	VOA	48	50	96
Toluene - d8	VOA	50	50	100
2-Fluorophenol	ACID	5	142	4
Phenol - d5	ACID	4	103	4
Nitrobenzene - d5	B/N	79	98	81
2-Fluorobiphenyl	B/N	87	100	87
Naphthalene-D8	B/N	88	102	86

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#45	NO GOOD FIT
2.		UNKNOWN	VOA#187	NO GOOD FIT
3.		UNKNOWN	ACID#79	NO GOOD FIT
4.		UNKNOWN	ACID#116	NO GOOD FIT
5.		UNKNOWN	ACID#142	NO GOOD FIT
6.		UNKNOWN	ACID#157	NO GOOD FIT
7.		DODECANOIC ACID	ACID#203	979
8.		UNKNOWN	ACID#242	NO GOOD FIT
9.		UNKNOWN	ACID#290	NO GOOD FIT
10.		UNKNOWN	ACID#448	NO GOOD FIT
11.		1,1,1,2-TETRACHLORO-		
12.		PROPANE	B/N#42	834
13.		UNKNOWN	B/N#68	NO GOOD FIT
14.		UNKNOWN	B/N#217	NO GOOD FIT
15.		UNKNOWN	B/N#270	NO GOOD FIT
16.				
17.				
18.				
19.				
20.				

**ORIGINAL
(Red)**

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C0414
 LAB ID 20844A9
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/23/81
 STD ID DFTPP1264 PHEN312
 CONC FACTOR 200

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID C0414
 LAB ID 20844B9
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/26/81
 STD ID DFTPP103 BNSTD053
 CONC FACTOR 1000

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	1471
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate *	
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	ND
69B di-n-octyl phthalate	ORIGINAL ND
70B diethyl phthalate	(Red) ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	44---(1)
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	44----(1)
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	*
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

(1)-Coeluting Compounds

SAMPLE ID C0414
 LAB ID 20844V11 & 20844V18
 DATE INJECTED 2/10/81 & 2/5/81
 STD ID DFTPP1255/DFTPP1252 VOA118/VOA116
 CONC. FACTOR ----

SAMPLE ID C0414
 LAB ID 20844 Trace # 2237
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/11/81
 STD ID Trace # 2236
 CONC. FACTOR 40

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	11
XX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	7883
44V methylene chloride	38
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	2363
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ORIGINAL (Red) ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 27

Sample Number
C0414

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	40	50	80
1-Chloro-2-Bromopropane	VOA	43	50	87
Toluene - d8	VOA	43	50	85
2-Fluorophenol	ACID	33	142	23
Phenol - d5	ACID	30	103	29
Nitrobenzene - d5	B/N	ND	98	0
2-Fluorobiphenyl	B/N	ND	100	0
Naphthalene-D8	B/N	ND	102	0

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#421	NO GOOD FIT
2.		UNKNOWN	ACID#47	NO GOOD FIT
3.		UNKNOWN	ACID# 53	NO GOOD FIT
4.		UNKNOWN	ACID#57	NO GOOD FIT
5.		UNKNOWN	ACID#63	NO GOOD FIT
6.		UNKNOWN	ACID#82	NO GOOD FIT
7.		2-METHYLNAPHTHALENE	ACID#102	950
8.		DIMETHYL NAPHTHALENE	ACID#117	990
9.		DIMETHYL NAPHTHALENE	ACID#124	980
10.		ETHYLNAPHTHALENE	ACID#131	964
11.		TRIMETHYL NAPHTHALENE	ACID#145	938
12.		UNKNOWN	ACID#200	NO GOOD FIT
13.		HYDROCARBON	B/N#20	GENERAL FIT
14.		HYDROCARBON	B/N#27	GENERAL FIT
15.		HYDROCARBON	B/N#40	GENERAL FIT
16.		HYDROCARBON	B/N#50	GENERAL FIT
17.		HYDROCARBON	B/N#64	GENERAL FIT
18.		HYDROCARBON	B/N#78	GENERAL FIT
19.		HYDROCARBON	B/N#93	GENERAL FIT
20.				

QC Report No: 27

Sample Number
C0414 con't

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA			
1-Chloro-2-Bromopropane	VOA			
Toluene - d8	VOA			
2-Fluorophenol	ACID			
Phenol - d5	ACID			
Nitrobenzene - d5	B/N			
2-Fluorobiphenyl	B/N			
Naphthalene-D8	B/N			

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		HYDROCARBON	B/N#105	GENERAL FIT
2.		HYDROCARBON	B/N#132	GENERAL FIT
3.		HYDROCARBON	B/N#146	GENERAL FIT
4.				ORIGINAL
5.				(Red)
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

SAMPLE ID C0415
 LAB ID 20844A10
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/23/81
 STD ID DFTPP1264 PHEN312
 CONC FACTOR 200

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	*

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	*
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	14
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID C0415
 LAB ID 20844B10
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/26/81
 STD ID _____
 CONC FACTOR 1000

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	*
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ORIGINAL ND
71B dimethyl phthalate	(Rea) *
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

SAMPLE ID C0415
 LAB ID 20844V17
 DATE INJECTED 2/13/81
 STD ID DFTPP1255 VOA118
 CONC. FACTOR ----

SAMPLE ID C0415
 LAB ID 20844 Trace #2230
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/10/81
 STD ID Trace #2229
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	34
6V carbon tetrachloride	ND
7V chlorobenzene	128
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	26
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	85
44V methylene chloride	37
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	26
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ORIGINAL ND
104P gamma-BHC	(Red) ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 27

Sample Number
C0415

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	42	50	85
1-Chloro-2-Bromopropane	VOA	42	50	83
Toluene - d8	VOA	43	50	87
2-Fluorophenol	ACID	38	142	27
Phenol - d5	ACID	22	103	21
Nitrobenzene - d5	B/N	103	98	105
2-Fluorobiphenyl	B/N	95	100	95
Naphthalene-D8	B/N	91	102	89

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: <u>FIT</u> (specify)
1.		UNKNOWN	VOA#422	NO GOOD FIT
2.		UNKNOWN	ACID#136	NO GOOD FIT
3.		UNKNOWN	ACID#158	NO GOOD FIT
4.		UNKNOWN	ACID#200	NO GOOD FIT
5.		UNKNOWN	ACID#223	NO GOOD FIT
6.		UNKNOWN	ACID#251	NO GOOD FIT
7.		UNKNOWN	ACID#442	NO GOOD FIT
8.		UNKNOWN	B/N#20	NO GOOD FIT
9.		UNKNOWN	B/N#46	NO GOOD FIT
10.		UNKNOWN	B/N#65	NO GOOD FIT
11.		UNKNOWN	B/N#86	NO GOOD FIT
12.		UNKNOWN	B/N#143	NO GOOD FIT
13.		UNKNOWN	B/N#244	NO GOOD FIT
14.		UNKNOWN	B/N#277	NO GOOD FIT
15.		UNKNOWN	B/N#294	NO GOOD FIT
16.		UNKNOWN	B/N#363	NO GOOD FIT
17.		UNKNOWN	B/N#423	NO GOOD FIT
18.				
19.				
20.				

ORIGINAL
(Red)

SAMPLE ID C0416
 LAB ID 20844A11
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/23/81
 STD ID DFTPP1264 PHEN312
 CONC FACTOR 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronapthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID C0416
 LAB ID 20844B11
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/26/81
 STD ID DFTPP103 BNSTD053
 CONC FACTOR 1000

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ORIGINAL ND
71B dimethyl phthalate	(Red) ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

SAMPLE ID C0416
 LAB ID 20844V16
 DATE INJECTED 2/13/81
 STD ID DFTPP1255 VOA118
 CONC. FACTOR ----

SAMPLE ID C0416
 LAB ID 20844 Trace #2231
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/10/81
 STD ID Trace #2229
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	21
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	35
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	*
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l
 (pesticides less than 5 ug/l)
 ND = Not detected
 ** = Not confirmed by GCMS

ORIGINAL
 (Red)

QC Report No: 27

Sample Number
C0416

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	49	50	97
1-Chloro-2-Bromopropane	VOA	47	50	94
Toluene - d8	VOA	46	50	92
2-Fluorophenol	ACID	97	142	68
Phenol - d5	ACID	ND	103	0
Nitrobenzene - d5	B/N	78	98	80
2-Fluorobiphenyl	B/N	89	100	89
Naphthalene-D8	B/N	38	102	37

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#445	NO GOOD FIT
2.		UNKNOWN	ACID#86	NO GOOD FIT
3.		UNKNOWN	ACID#106	NO GOOD FIT
4.		UNKNOWN	ACID#132	NO GOOD FIT ORIGINAL
5.		UNKNOWN	ACID#187	NO GOOD FIT (Red)
6.		UNKNOWN	B/N#64	NO GOOD FIT
7.		UNKNOWN	B/N#95	NO GOOD FIT
8.		3,3,3-TRICHLORO-1-		
9.		PROPENE	B/N#40	912
10.		UNKNOWN	B/N#173	NO GOOD FIT
11.		UNKNOWN	B/N#212	NO GOOD FIT
12.		UNKNOWN	B/N#267	NO GOOD FIT
13.		UNKNOWN	B/N#304	NO GOOD FIT
14.		UNKNOWN	B/N#434	NO GOOD FIT
15.				
16.				
17.				
18.				
19.				
20.				

SAMPLE ID _____ METHOD BLANK _____
 LAB ID _____ 20844A12 _____
 DATE EXTRACTED _____ 2/7/81 _____
 DATE INJECTED _____ 2/23/81 _____
 STD ID _____ DFTPP1264 PHEN312 _____
 CONC FACTOR _____ 1000 _____

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID _____ METHOD BLANK _____
 LAB ID _____ 20844B12 _____
 DATE EXTRACTED _____ 2/6/81 _____
 DATE INJECTED _____ 2/27/81 _____
 STD ID _____ DFTPP104 BNSTD054 _____
 CONC FACTOR _____ 1000 _____

Pigeon Pt Landfill

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	ND
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

ORIGINAL
(Red)

SAMPLE ID LAB BLANK BFB
 LAB ID 20797V14
 DATE INJECTED 2/9/81
 STD ID DFTPP1251 VOA115
 CONC. FACTOR ----

SAMPLE ID METHOD BLANK
 LAB ID 20844 Trace#2209
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/9/81
 STD ID Trace #2206
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	*
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	41
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	*
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordan	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ORIGINAL ND
106P PCB-1242	(Red) ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 27

Sample Number
METHOD BLANK

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	50	50	100
1-Chloro-2-Bromopropane	VOA	47	50	94
Toluene - d8	VOA	47	50	94
2-Fluorophenol	ACID	45	142	32
Phenol - d5	ACID	ND	103	0
Nitrobenzene - d5	B/N	74	98	76
2-Fluorobiphenyl	B/N	86	100	86
Naphthalene-D8	B/N	70	102	69

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	ACID#57	NO GOOD FIT
2.		UNKNOWN	ACID#84	NO GOOD FIT
3.		UNKNOWN	ACID#105	NO GOOD FIT
4.		UNKNOWN	ACID#114	NO GOOD FIT
5.		UNKNOWN	ACID#132	NO GOOD FIT
6.		UNKNOWN	ACID#143	NO GOOD FIT
7.		UNKNOWN	ACID#164	NO GOOD FIT
8.		UNKNOWN	ACID#158	NO GOOD FIT
9.		UNKNOWN	ACID#169	NO GOOD FIT
10.		UNKNOWN	ACID#189	NO GOOD FIT
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				



SAMPLE ID _____ METHOD BLANK _____
LAB ID _____ 20844A12
DATE EXTRACTED _____ 2/7/81
DATE INJECTED _____ 2/23/81
STD ID _____ DFTPP1264 PHEN312
CONC FACTOR _____ 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID _____ METHOD BLANK _____
LAB ID _____ 20844B12
DATE EXTRACTED _____ 2/6/81
DATE INJECTED _____ 2/27/81
STD ID _____ DFTPP104 BNSTD054
CONC FACTOR _____ 1000

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	ND
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID LAB BLANK BFB
 LAB ID 20797V14
 DATE INJECTED 2/9/81
 STD ID DFTPP1251 VOA115
 CONC. FACTOR ----

SAMPLE ID METHOD BLANK
 LAB ID 20844 Trace#2209
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/9/81
 STD ID Trace #2206
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	*
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	41
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	*
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

ORIGINAL
(Red)

* = Less than 10 ug/l
 (pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 27

Sample Number
METHOD BLANK

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	50	50	100
1-Chloro-2-Bromopropane	VOA	47	50	94
Toluene - d8	VOA	47	50	94
2-Fluorophenol	ACID	45	142	32
Phenol - d5	ACID	ND	103	0
Nitrobenzene - d5	B/N	74	98	76
2-Fluorobiphenyl	B/N	86	100	86
Naphthalene-D8	B/N	70	102	69

B. TENTATIVELY IDENTIFIED COMPOUNDS				
	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	ACID#57	NO GOOD FIT
2.		UNKNOWN	ACID#84	NO GOOD FIT
3.		UNKNOWN	ACID#105	NO GOOD FIT
4.		UNKNOWN	ACID#114	NO GOOD FIT
5.		UNKNOWN	ACID#132	NO GOOD FIT
6.		UNKNOWN	ACID#143	NO GOOD FIT
7.		UNKNOWN	ACID#164	NO GOOD FIT
8.		UNKNOWN	ACID#158	NO GOOD FIT
9.		UNKNOWN	ACID#169	NO GOOD FIT
10.		UNKNOWN	ACID#189	NO GOOD FIT
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				



SAMPLE ID C0409
LAB ID 20844A2
DATE EXTRACTED 2/7/81
DATE INJECTED 2/22/81
STD ID DFTPP1263 PHEN310
CONC FACTOR 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	*
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	35
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID C0409
LAB ID 20844B2
DATE EXTRACTED 2/16/81
DATE INJECTED 2/26/81
STD ID DFTPP103 BNSTD053
CONC FACTOR 1000

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	4247
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	*
70B diethyl phthalate	ND
71B dimethyl phthalate	ORIGINAL ND
72B benzo(a) anthracene	(Red) ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND



WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY _____

SAMPLE ID C0409
LAB ID 20844V2
DATE INJECTED 2/9/81
STD ID DFTPP1251 VOA115
CONC. FACTOR

SAMPLE ID C0409
LAB ID 20844 TRACE #2211
DATE EXTRACTED 2/6/81
DATE INJECTED 2/9/81
STD ID TRACE #2213
CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V 1,1,1,2-tetrachloroethane	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	36
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ORIGINAL ND
105P delta-BHC	(Red) ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

WEST COAST TECHNICAL SERVICE INC.
ORGANICS ANALYSIS DATA SHEET - Page 3

QC Report No: 26

Sample Number
C0409

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	57	50	114
1-Chloro-2-Bromopropane	VOA	53	50	106
Toluene - d8	VOA	54	50	108
2-Fluorophenol	ACID	25	142	18
Phenol - d5	ACID	ND	103	0
Nitrobenzene - d5	B/N	64	98	65
2-Fluorobiphenyl	B/N	84	100	89
Naphthalene-D8	B/N	74	102	73

B. TENTATIVELY IDENTIFIED COMPOUNDS				
	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#43	NO GOOD FIT
2.		METHYLCYCLOPENTANE	VOA#185	837
3.		1,1'-OXYBIS-2-CHLORO-		
4.		ETHANE	VOA#383	917
5.		UNKNOWN	ACID#61	NO GOOD FIT
6.		UNKNOWN	ACID#107	NO GOOD FIT
7.		UNKNOWN	ACID#159	NO GOOD FIT
8.		UNKNOWN	ACID#190	NO GOOD FIT
9.		UNKNOWN	ACID#213	NO GOOD FIT
10.		DI-N-BUTYL PHTHALATE	ACID#253	917
11.		BIS(2-ETHYLHEXYL)-		
12.		PHTHALATE	ACID#445	CONFIRMED
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

**ORIGINAL
(Red)**



SAMPLE ID _____ C0410
LAB ID _____ 20844A3
DATE EXTRACTED _____ 2/7/81
DATE INJECTED _____ 2/23/81
STD ID _____ DFTPP1264 PHEN311
CONC FACTOR _____ 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID _____ C0410
LAB ID _____ 20844B3
DATE EXTRACTED _____ 2/6/81
DATE INJECTED _____ 2/26/81
STD ID _____ DFTPP103 BNSTD053
CONC FACTOR _____ 1000

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	17 ✓
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ORIGINAL ND
71B dimethyl phthalate	(Red) ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND



WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY _____

SAMPLE ID C0410
 LAB ID 20844V3
 DATE INJECTED 2/9/81
 STD ID DFTPP1251 VOA115
 CONC. FACTOR

SAMPLE ID C0410
 LAB ID 20844 TRACE #2215
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/9/81
 STD ID TRACE #2213
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V 1,1,1,2-tetrachloroethane	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	*
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	38
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	2.0**
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 26

Sample Number
C0410

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	51	50	102
1-Chloro-2-Bromopropane	VOA	47	50	94
Toluene - d8	VOA	51	50	102
2-Fluorophenol	ACID	3	142	2 -
Phenol - d5	ACID	0	103	0
Nitrobenzene - d5	B/N	53	98	54
2-Fluorobiphenyl	B/N	67	100	67
Naphthalene-D8	B/N	61	102	60

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		TETRAHYDROFURAN	VOA#116	998
2.		1,1,2,2-TETRACHLORO-		
3.		ETHANE	ACID#59	995
4.		1,2,3-TRICHLOROPROPANE	ACID#51	961
5.		UNKNOWN	B/N#275	NO GOOD FIT
6.		UNKNOWN	B/N#370	NO GOOD FIT
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

ORIGINAL
(Red)

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C0415
 LAB ID 20844A10
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/23/81
 STD ID DFTPP1264 PHEN312
 CONC FACTOR 200

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	*

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	*
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	14
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID C0415
 LAB ID 20844B10
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/26/81
 STD ID _____
 CONC FACTOR 1000

*Aqueous Leachate Sample, Phenol
 Leachate collection outfall*

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ORIGINAL ND
56B nitrobenzene	(Red) ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	*
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	*
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C0415
 LAB ID 20844V17
 DATE INJECTED 2/13/81
 STD ID DFTPP1255 VOA118
 CONC. FACTOR ----

SAMPLE ID C0415
 LAB ID 20844 Trace #2230
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/10/81
 STD ID Trace #2229
 CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	34
6V carbon tetrachloride	ND
7V chlorobenzene	128
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	26
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	85
44V methylene chloride	37
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	26
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

WEST COAST TECHNICAL SERVICE INC.
ORGANICS ANALYSIS DATA SHEET - Page 3

QC Report No: 27

Sample Number
C0415

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	42	50	85
1-Chloro-2-Bromopropane	VOA	42	50	83
Toluene - d8	VOA	43	50	87
2-Fluorophenol	ACID	38	142	27
Phenol - d5	ACID	22	103	21
Nitrobenzene - d5	B/N	103	98	105
2-Fluorobiphenyl	B/N	95	100	95
Naphthalene-D8	B/N	91	102	89

B. TENTATIVELY IDENTIFIED COMPOUNDS				
	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: <u>FIT</u> (specify)
1.		UNKNOWN	VOA#422	NO GOOD FIT
2.		UNKNOWN	ACID#136	NO GOOD FIT ORIGINAL
3.		UNKNOWN	ACID#158	NO GOOD FIT (Red)
4.		UNKNOWN	ACID#200	NO GOOD FIT
5.		UNKNOWN	ACID#223	NO GOOD FIT
6.		UNKNOWN	ACID#251	NO GOOD FIT
7.		UNKNOWN	ACID#442	NO GOOD FIT
8.		UNKNOWN	B/N#20	NO GOOD FIT
9.		UNKNOWN	B/N#46	NO GOOD FIT
10.		UNKNOWN	B/N#65	NO GOOD FIT
11.		UNKNOWN	B/N#86	NO GOOD FIT
12.		UNKNOWN	B/N#143	NO GOOD FIT
13.		UNKNOWN	B/N#244	NO GOOD FIT
14.		UNKNOWN	B/N#277	NO GOOD FIT
15.		UNKNOWN	B/N#294	NO GOOD FIT
16.		UNKNOWN	B/N#363	NO GOOD FIT
17.		UNKNOWN	B/N#423	NO GOOD FIT
18.				
19.				
20.				

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY _____

SAMPLE ID C0414
 LAB ID 20844A9
 DATE EXTRACTED 2/7/81
 DATE INJECTED 2/23/81
 STD ID DFTPP1264 PHEN312
 CONC FACTOR 200

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID C0414
 LAB ID 20844B9
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/26/81
 STD ID DFTPP103 BNSTD053
 CONC FACTOR 1000

Aqueous leachate sample, Co. Leachate Pond

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis(2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	1471
56B nitrobenzene	ORIGINAL ND
61B N-nitrosodimethylamine	(Red) ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis(2-ethylhexyl) phthalate	*
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	ND
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	44---(1)
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	44---(1)
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	*
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

(1)-Coeluting Compounds

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY _____

SAMPLE ID C0414
 LAB ID 20844V11 & 20844V18
 DATE INJECTED 2/10/81 & 2/5/81
 STD ID DFTPP1255/DFTPP1252 VOA118/VOA116
 CONC. FACTOR ----

SAMPLE ID C0414
 LAB ID 20844 Trace # 2237
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/11/81
 STD ID Trace # 2236
 CONC. FACTOR 40

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	11
XX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	7883
44V methylene chloride	38
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	2363
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ORIGINAL ND
97P endosulfan sulfate	(Red) ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

QC Report No: 27

Sample Number
C0414

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	40	50	80
1-Chloro-2-Bromopropane	VOA	43	50	87
Toluene - d8	VOA	43	50	85
2-Fluorophenol	ACID	33	142	23
Phenol - d5	ACID	30	103	29
Nitrobenzene - d5	B/N	ND	98	0
2-Fluorobiphenyl	B/N	ND	100	0
Naphthalene-D8	B/N	ND	102	0

B. TENTATIVELY IDENTIFIED COMPOUNDS				
	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#421	NO GOOD FIT
2.		UNKNOWN	ACID#47	NO GOOD FIT
3.		UNKNOWN	ACID# 53	NO GOOD FIT
4.		UNKNOWN	ACID#57	NO GOOD FIT
5.		UNKNOWN	ACID#63	NO GOOD FIT
6.		UNKNOWN	ACID#82	NO GOOD FIT
7.		2-METHYLNAPHTHALENE	ACID#102	950
8.		DIMETHYL NAPHTHALENE	ACID#117	990
9.		DIMETHYL NAPHTHALENE	ACID#124	980
10.		ETHYLNAPHTHALENE	ACID#131	964
11.		TRIMETHYL NAPHTHALENE	ACID#145	938
12.		UNKNOWN	ACID#200	NO GOOD FIT
13.		HYDROCARBON	B/N#20	GENERAL FIT
14.		HYDROCARBON	B/N#27	GENERAL FIT
15.		HYDROCARBON	B/N#40	GENERAL FIT
16.		HYDROCARBON	B/N#50	GENERAL FIT
17.		HYDROCARBON	B/N#64	GENERAL FIT
18.		HYDROCARBON	B/N#78	GENERAL FIT
19.		HYDROCARBON	B/N#93	GENERAL FIT
20.				



QC Report No: 27

Sample Number
C0414 con't

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA			
1-Chloro-2-Bromopropane	VOA			
Toluene - d8	VOA			
2-Fluorophenol	ACID			
Phenol - d5	ACID			
Nitrobenzene - d5	B/N		ORIGINAL	
2-Fluorobiphenyl	B/N		(Red)	
Naphthalene-D8	B/N			

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained
				Mass Matching Routine: FIT (specify)
1.		HYDROCARBON	B/N#105	GENERAL FIT
2.		HYDROCARBON	B/N#132	GENERAL FIT
3.		HYDROCARBON	B/N#146	GENERAL FIT
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				



WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY _____

SAMPLE ID _____ C0412
LAB ID _____ 20844A7
DATE EXTRACTED _____ 2/7/81
DATE INJECTED _____ 2/23/81
STD ID _____ DFTPP1264 PHEN311
CONC FACTOR _____ 1000

SAMPLE ID _____ C0412
LAB ID _____ 20844B7
DATE EXTRACTED _____ 2/6/81
DATE INJECTED _____ 2/26/81
STD ID _____ DFTPP103 BNSTD053
CONC FACTOR _____ 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	14

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene: ORIGINAL	ND
56B nitrobenzene (Red)	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C0412
 LAB ID 20844V5
 DATE INJECTED 2/9/81
 STD ID DFTPP1251 VOA115
 CONC. FACTOR

SAMPLE ID C0412
 LAB ID 20844 TRACE #2223
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/10/81
 STD ID TRACE #2222
 CONC. FACTOR 50

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V 1,1,1,2-tetrachloroethane	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	*
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	38
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	31
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	*
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan INDICINAL	0.3
96P beta-endosulfan (Red)	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

WEST COAST TECHNICAL SERVICE INC.
ORGANICS ANALYSIS DATA SHEET - Page 3

QC Report No: 27

Sample Number
C0412

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	48	50	96
1-Chloro-2-Bromopropane	VOA	46	50	92
Toluene - d8	VOA	47	50	94
2-Fluorophenol	ACID	58	142	41
Phenol - d5	ACID	28	103	27
Nitrobenzene - d5	B/N	72	98	73
2-Fluorobiphenyl	B/N	83	100	83
Naphthalene-D8	B/N	74	102	73

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#45	NO GOOD FIT
2.		2-METHYLPROPANE	VOA#61	917
3.		METHYLCYCLOPENTANE	VOA#186	907
4.		1,1,2,2-TETRACHLORO-		
5.		ETHANE	ACID#58	1000
6.		2-METHYLPROPANOIC ACID	ACID#79	958
7.		UNKNOWN	ACID#98	NO GOOD FIT
8.		UNKNOWN	ACID#119	NO GOOD FIT
9.		BENZOIC ACID	ACID#226	920
10.		BENZENE ACETIC ACID	ACID#251	971
11.		BENZENE PROPANOIC ACID	ACID#263	992
12.		UNKNOWN	ACID#298	NO GOOD FIT
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				



SAMPLE ID C0411
LAB ID 20844A4
DATE EXTRACTED 2/7/81
DATE INJECTED 2/23/81
STD ID DFTPP1264 PHEN311
CONC FACTOR 800

SAMPLE ID C0411
LAB ID 20844B5
DATE EXTRACTED 2/6/81
DATE INJECTED 2/26/81
STD ID DFTPP103 BNSTD053
CONC FACTOR 800

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ORIGINAL ND
55B naphthalene	(Red) ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C0411
 LAB ID 20844V4
 DATE INJECTED 2/9/81
 STD ID DFTPP1252 VOA115
 CONC. FACTOR

SAMPLE ID C0411
 LAB ID 20844 TRACE #2217
 DATE EXTRACTED 2/6/81
 DATE INJECTED 2/9/81
 STD ID TRACE #2218
 CONC. FACTOR 50

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V 1,1,1-trichloroethane	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	37
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ORIGINAL 2.4**
96P beta-endosulfan	(req) ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor-epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

WEST COAST TECHNICAL SERVICE INC.
ORGANICS ANALYSIS DATA SHEET - Page 3

QC Report No: 27

Sample Number
C0411

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	48	50	96
1-Chloro-2-Bromopropane	VOA	45	50	90
Toluene - d8	VOA	47	50	94
2-Fluorophenol	ACID	84	142	59
Phenol - d5	ACID	46	1030 ORIGINAL	145
Nitrobenzene - d5	B/N	72	98 (Red)	73
2-Fluorobiphenyl	B/N	88	100	88
Naphthalene-D8	B/N	76	102	75

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#46	NO GOOD FIT
2.		UNKNOWN	VOA#185	NO GOOD FIT
3.		3,3,3-TRICHLORO-1-		
4.		PROPENE	ACID#44	956
5.		1,2,3-TRICHLOROPROPANE	ACID#54	944
6.		1,1,2,2-TETRACHLORO-		
7.		ETHANE	ACID#63	996
8.		UNKNOWN	ACID#193	NO GOOD FIT
9.		UNKNOWN	B/N#40	NO GOOD FIT
10.		UNKNOWN	B/N#274	NO GOOD FIT
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

Sample No: C0411
Lab Standard ID: 20844A6

BNSTD053

U.S. ENVIRONMENTAL PROTECTION AGENCY
HWI SAMPLE MANAGEMENT OFFICE

Lab Name: WEST COAST TECHNICAL SERVICE
Report No: 27
Page 4 of 5

ORIGINAL
(Red)

QUALITY CONTROL REPORT
A. MATRIX SPIKE ANALYSIS

COMPOUND (including surrogates)				Sample Result (SR)	CONCENTRATION (ug/l)		% Recovery*
P.	P.	#	COMPOUND NAME		Spiked Sample Result (SSR)	Spike Added (SA)	
			PENTACHLOROPHENOL	ND	24	50	48
			P-CHLORO-M-CRESOL	ND	12	50	24
			PHENOL	ND	17	50	34
			2-CHLOROPHENOL	ND	31	53	58
			4-NITROPHENOL	ND	958	503	190
2	7	B	1,4-DICHLOROBENZENE	ND	32	50	64
6	3	B	N-NITROSO-di-n-PROPYLAMINE	ND	7	50	14
	8	B	1,2,4-TRICHLOROBENZENE	ND	37	50	74
	1	B	ACENAPHTHENE	ND	ND	50	0
3	6	B	2,6-DINITROTOLUENE	ND	57	50	114
6	8	B	DI-N-BUTYLPHTHALATE	3	8	50	10
8	4	B	PYRENE	ND	1	50	2

This QC Report also covers the following sample numbers: C0411-C0416, B0355-B0367, Y0313

* Recovery =
$$\frac{(\text{SSR} - \text{SR})}{(\text{SA})} \times 100$$

Sample No: C0411

Lab Standard ID: 20844 A5 BNSTD053

U.S. ENVIRONMENTAL PROTECTION AGENCY

HWI SAMPLE MANAGEMENT OFFICE

Lab Name: WEST COAST TECHNICAL SERVICE, INC.

Report No: 27

Page 5 of 5

**ORIGINAL
(Red)**

QUALITY CONTROL REPORT

B. DUPLICATE ANALYSIS

[illegible]

This QC Report also covers the following sample numbers:

C0411-C0416, B0355-B0367, Y0313

$$*RPD = \frac{(D_1 - D_2)}{[(D_1 + D_2)/2]} \times 100$$

Sample No: C0412
 Lab Standard ID: DFTPP1251 VOA115

U.S. ENVIRONMENTAL PROTECTION AGENCY
 HWI SAMPLE MANAGEMENT OFFICE

Lab Name: WEST COAST TECHNICAL SERVICE,
 Report No: 27
 Page 4 of 5

ORIGINAL
 (Red)

QUALITY CONTROL REPORT
 A. MATRIX SPIKE ANALYSIS

COMPOUND (including surrogates)				CONCENTRATION (ug/l)			% Recovery*
P.	P.	#	COMPOUND NAME	Sample Result (SR)	Spiked Sample Result (SSR)	Spike Added (SA)	
5	0	V	DICHLORODIFLUORO METHANE	31	28	----	----
4	4	V	METHYLENE CHLORIDE	38	36	----	----
1	1	V	1,1,1-TRICHLOROETHANE	3	2	----	----
3	2	V	1,2-DICHLOROPROPANE	3	3	----	----
	4	V	BENZENE	ND	36	25	144
			TOLUENE	4	34	25	120
	7	V	CHLOROBENZENE	ND	30	25	120
			BENZENE D6	48	54	50	102
			1-CHLORO-2-BROMOPROPANE	46	49	50	95
			TOLUENE D8	47	50	50	97
1	0	0	HEPTACHLOR	ND	2.8	4.9	57
8	9	P	ALDRIN	ND	2.3	5.0	45
9	0	P	DIELDRIN	ND	2.9	5.0	58
9	2	P	4,4'-DDT	ND	3.5	4.6	75

This QC Report also covers the following sample numbers: C0411-C0416, B0355-B0367, Y0313

* Recovery =
$$\frac{(SSR - SR)}{(SA)} \times 100$$

**ORIGINAL
(Red)**

QUALITY CONTROL REPORT

B. DUPLICATE ANALYSIS

[illegible]

This QC Report also covers the following sample numbers: C0411-C0416; B0355-B0367; Y0313

$$*RPD = \frac{(D_1 - D_2)}{[(D_1 + D_2)/2]} \times 100$$



SAMPLE ID C0416
LAB ID 20844A11
DATE EXTRACTED 2/7/81
DATE INJECTED 2/23/81
STD ID DFTPP1264 PHEN312
CONC FACTOR 1000

SAMPLE ID C0416
LAB ID 20844B11
DATE EXTRACTED 2/6/81
DATE INJECTED 2/26/81
STD ID DFTPP103 BNSTD053
CONC FACTOR 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ORIGINAL ND
56B nitrobenzene	(Red) ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND

WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY

SAMPLE ID C0416
LAB ID 20844V16
DATE INJECTED 2/13/81
STD ID DFTPP1255 VOA118
CONC. FACTOR ----

SAMPLE ID C0416
LAB ID 20844 Trace #2231
DATE EXTRACTED 2/6/81
DATE INJECTED 2/10/81
STD ID Trace #2229
CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
XX	
19V 2-chloroethylvinyl ether	ND
23V chloroform	21
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	35
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	*
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

WEST COAST TECHNICAL SERVICE INC.
ORGANICS ANALYSIS DATA SHEET - Page 3

QC Report No: 27

Sample Number
C0416

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	49	50	97
1-Chloro-2-Bromopropane	VOA	47	50	94
Toluene - d8	VOA	46	50	92
2-Fluorophenol	ACID	97	142	68
Phenol - d5	ACID	ND	103	0
Nitrobenzene - d5	B/N	78	98	80
2-Fluorobiphenyl	B/N	89	100	89
Naphthalene-D8	B/N	38	102	37

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#445	NO GOOD FIT
2.		UNKNOWN	ACID#86	NO GOOD FIT
3.		UNKNOWN	ACID#106	NO GOOD FIT
4.		UNKNOWN	ACID#132	NO GOOD FIT
5.		UNKNOWN	ACID#187	NO GOOD FIT
6.		UNKNOWN	B/N#64	NO GOOD FIT
7.		UNKNOWN	B/N#95	NO GOOD FIT
8.		3,3,3-TRICHLORO-1-		
9.		PROPENE	B/N#40	912
10.		UNKNOWN	B/N#173	NO GOOD FIT
11.		UNKNOWN	B/N#212	NO GOOD FIT
12.		UNKNOWN	B/N#267	NO GOOD FIT
13.		UNKNOWN	B/N#304	NO GOOD FIT
14.		UNKNOWN	B/N#434	NO GOOD FIT
15.				
16.				
17.				
18.				
19.				
20.				

**ORIGINAL
(Red)**



SAMPLE ID C0408
LAB ID 20844A1
DATE EXTRACTED 2/7/81
DATE INJECTED 2/22/81
STD ID DFTPP1263 PHEN310
CONC FACTOR 1000

<u>Acid Compounds</u>	<u>ug/l</u>
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

SAMPLE ID C0408
LAB ID 20844B1
DATE EXTRACTED 2/16/81
DATE INJECTED 2/26/81
STD ID DFTPP103 BNSTD053
CONC FACTOR 1000

<u>Base/Neutral Compounds</u>	<u>ug/l</u>
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene ORIGINAL	ND
56B nitrobenzene (Red)	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	ND
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ND
73B benzo(a)pyrene	ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND



SAMPLE ID C0408
LAB ID 20448V1
DATE INJECTED 2/9/81
STD ID DFTPP1251 VOA115
CONC. FACTOR

SAMPLE ID C0408
LAB ID 20844 TRACE #2210
DATE EXTRACTED 2/6/81
DATE INJECTED 2/9/81
STD ID TRACE #2213
CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V 1,1,1-trichloroethane	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	*
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	38
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	*
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS



QC Report No: 26

Sample Number
C0408

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	59	50	118
1-Chloro-2-Bromopropane	VOA	55	50	110
Toluene - d8	VOA	57	50	114
2-Fluorophenol	ACID	8	142	6
Phenol - d5	ACID	2	103	2
Nitrobenzene - d5	B/N	65	98	66
2-Fluorobiphenyl	B/N	88	100	88
Naphthalene-D8	B/N	64	102	63

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA #187	NO GOOD FIT
2.		UNKNOWN	ACID #60	NO GOOD FIT
3.		UNKNOWN	ACID #73	NO GOOD FIT
4.		UNKNOWN	ACID #87	NO GOOD FIT
5.		UNKNOWN	ACID #107	NO GOOD FIT
6.		UNKNOWN	ACID #133	NO GOOD FIT
7.		UNKNOWN	ACID #144	NO GOOD FIT
8.		UNKNOWN	ACID #159	NO GOOD FIT
9.		UNKNOWN	ACID #165	NO GOOD FIT
10.		UNKNOWN	ACID #170	NO GOOD FIT
11.		UNKNOWN	ACID #190	NO GOOD FIT
12.		3,3,3-TRICHLORO-1-PRO-		
13.		PENE	B/N #44	866
14.		UNKNOWN	B/N #273	NO GOOD FIT
15.				
16.				
17.				
18.				
19.				
20.				

Sample No: F0434
Lab Standard ID: DFTPP1250 VOATT3

DFTPP1258
PHEN308

U.S. ENVIRONMENTAL PROTECTION AGENCY
HAI SAMPLE MANAGEMENT OFFICE

Lab Name: WEST COAST TECHNICAL SERVICE,
Report No: 26
Page 4 of 5

QUALITY CONTROL REPORT
A. MATRIX SPIKE ANALYSIS

COMPOUND (including surrogates)				CONCENTRATION (ug/l)			% Recovery*
P.	P.	#	COMPOUND NAME	Sample Result (SR)	Spiked Sample Result (SSR)	Spike Added (SA)	
	4	4	V METHYLENE CHLORIDE	34	35	0	-
	2	3	V CHLOROFORM	2	2	0	-
	1	1	V 1,1,1-TRICHLOROETHANE	3	2	0	-
	8	5	V TETRACHLOROETHYLENE	2	2	0	-
			BENZENE D6	54	54	50	108
			1-CHLORO-2-BROMOPROPANE	51	51	50	102
			TOLUENE-D8	55	56	50	111
		4	V BENZENE	ND	31	25	124
			TOLUENE	ND	30	25	120
		7	V CHLOROBENZENE	ND	31	25	124
			2-FLUOROPHENOL	27	80	142	38
			PHENOL-D5	ND	ND	103	0
	6	4	A PENTACHLOROPHENOL	ND	35	50	70
	2	2	A P-CHLORO-M-CRESOL	ND	ND	50	0
	6	5	A PHENOL	ND	ND	50	0
	2	4	A 2-CHLOROPHENOL	5	30	53	47
			4-NITROPHENOL	ND	1463	503	291

This QC Report also covers the following sample numbers: Z0008-Z0009, F0433-F0441, Z0011-Z0016, C0408-C0410

* Recovery =
$$\frac{(SSR-SR)}{(SA)} \times 100$$

Sample No: F04340C
Lab Standard ID: 20797B4

U.S. ENVIRONMENTAL PROTECTION AGENCY
HWI SAMPLE MANAGEMENT OFFICE

Lab Name: WEST COAST TECHNICAL SERVICE,
Report No: 26
Page 4 of 5

DFTPP1266
BNSTD363

QUALITY CONTROL REPORT
A. MATRIX SPIKE ANALYSIS

[illegible]

This QC Report also covers the following sample numbers: Z0008-Z0009, F0433-F0441, Z0011-Z0016, C0408-C 0410

$$* \text{ Recovery} = \frac{(\text{SSR}-\text{SR})}{(\text{SA})} \times 100$$

Lab Name: WEST COAST TECHNICAL SERVICE, INC.
Report No: 26
Page 5 of 5

$$*RPD = \frac{(D_1 - D_2)}{[(D_1 + D_2)/2]} \times 100$$

DFTPP1258 -
PHEN308

QUALITY CONTROL REPORT

B. DUPLICATE ANALYSIS

1

[illegible]

This QC Report also covers the following sample numbers: Z0008, Z0009; F0433-F0441, Z0011-Z0016, C0408-C0410

$$*RPD = \frac{(D_1 - D_2)}{[(D_1 + D_2)/2]} \times 100$$

Sample No: F0435 QC
Lab Standard ID: Trace #2202, 2204, 2201

U.S. ENVIRONMENTAL PROTECTION AGENCY
HWI SAMPLE MANAGEMENT OFFICE

Lab Name: WEST COAST TECHNICAL SERVICE,
Report No: 26
Page 4 of 5

QUALITY CONTROL REPORT
A. MATRIX SPIKE ANALYSIS

[illegible]

This QC Report also covers the following sample numbers: Z00Q8, Z0009, F0433-F0441, Z0011-Z0016, C0408-C0410

$$* \text{ Recovery} = \frac{(\text{SSR}-\text{SR})}{(\text{SA})} \times 100$$

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$$*RPD = \frac{(D_1 - D_2)}{[(D_1 + D_2)/2]} \times 100$$



WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY _____

SAMPLE ID C0413
LAB ID 20844A8
DATE EXTRACTED 2/7/81
DATE INJECTED 2/23/81
STD ID DFTPP1264 PHEN312
CONC FACTOR 1000

SAMPLE ID C0413
LAB ID 20844B8
DATE EXTRACTED 2/6/81
DATE INJECTED 2/26/81
STD ID DFTPP103 BNSTD053
CONC FACTOR 1000

Acid Compounds	ug/l
21A 2,4,6-trichlorophenol	ND
22A p-chloro-m-cresol	ND
24A 2-chlorophenol	ND
31A 2,4-dichlorophenol	ND
34A 2,4-dimethylphenol	ND
57A 2-nitrophenol	ND
58A 4-nitrophenol	ND
59A 2,4-dinitrophenol	ND
60A 4,6-dinitro-o-cresol	ND
64A pentachlorophenol	ND
65A phenol	ND

Base/Neutral Compounds

1B acenaphthene	ND
5B benzidine	ND
8B 1,2,4-trichlorobenzene	ND
9B hexachlorobenzene	ND
12B hexachloroethane	ND
18B bis(2-chloroethyl)ether	ND
20B 2-chloronaphthalene	ND
25B 1,2-dichlorobenzene	ND
26B 1,3-dichlorobenzene	ND
27B 1,4-dichlorobenzene	ND
28B 3,3'-dichlorobenzidine	ND
35B 2,4-dinitrotoluene	ND
36B 2,6-dinitrotoluene	ND
37B 1,2-diphenylhydrazine (as azobenzene)	ND
39B fluoranthene	ND
40B 4-chlorophenyl phenyl ether	ND

Base/Neutral Compounds	ug/l
41B 4-bromophenyl phenyl ether	ND
42B bis(2-chloroisopropyl) ether	ND
43B bis (2-chloroethoxy) methane	ND
52B hexachlorobutadiene	ND
53B hexachlorocyclopentadiene	ND
54B isophorone	ND
55B naphthalene	ND
56B nitrobenzene	ND
61B N-nitrosodimethylamine	ND
62B N-nitrosodiphenylamine	ND
63B N-nitrosodi-n-propylamine	ND
66B bis (2-ethylhexyl) phthalate	ND
67B butyl benzyl phthalate	ND
68B di-n-butyl phthalate	*
69B di-n-octyl phthalate	ND
70B diethyl phthalate	ND
71B dimethyl phthalate	ND
72B benzo(a) anthracene	ORIGINAL ND
73B benzo(a)pyrene	(Red) ND
74B 3,4-benzofluoranthene	ND
75B benzo(k)fluoranthene	ND
76B chrysene	ND
77B acenaphthylene	ND
78B anthracene	ND
79B benzo(ghi)perylene	ND
80B fluorene	ND
81B phenanthrene	ND
82B dibenzo(a,h)anthracene	ND
83B indeno(1,2,3-cd)pyrene	ND
84B pyrene	ND
129B 2,3,7,8-tetrachlorodibenzo- p-dioxin	ND



WEST COAST TECHNICAL SERVICE INC. INDUSTRIAL CATEGORY _____

SAMPLE ID C0413
LAB ID 20844V8
DATE INJECTED 2/9/81
STD ID DFTPP1251 VOA115
CONC. FACTOR

SAMPLE ID C0413
LAB ID 20844 TRACE #2227
DATE EXTRACTED 2/6/81
DATE INJECTED 2/10/81
STD ID TRACE #2228
CONC. FACTOR 100

Volatiles	ug/l
2V acrolein	ND
3V acrylonitrile	ND
4V benzene	ND
6V carbon tetrachloride	ND
7V chlorobenzene	ND
10V 1,2-dichloroethane	ND
11V 1,1,1-trichloroethane	*
13V 1,1-dichloroethane	ND
14V 1,1,2-trichloroethane	ND
15V 1,1,2,2-tetrachloroethane	ND
16V chloroethane	ND
17V 1,1,1-trichloroethane	ND
19V 2-chloroethylvinyl ether	ND
23V chloroform	ND
29V 1,1-dichloroethylene	ND
30V 1,2-trans-dichloroethylene	ND
32V 1,2-dichloropropane	ND
33V 1,3-dichloropropylene	ND
38V ethylbenzene	ND
44V methylene chloride	36
45V methyl chloride	ND
46V methyl bromide	ND
47V bromoform	ND
48V dichlorobromomethane	ND
49V trichlorofluoromethane	ND
50V dichlorodifluoromethane	ND
51V chlorodibromomethane	ND
85V tetrachloroethylene	ND
86V toluene	ND
87V trichloroethylene	ND
88V vinyl chloride	ND

Pesticides	ug/l
89P aldrin	ND
90P dieldrin	ND
91P chlordane	ND
92P 4,4'-DDT	ND
93P 4,4'-DDE	ND
94P 4,4'-DDD	ND
95P alpha-endosulfan	ND
96P beta-endosulfan	ND
97P endosulfan sulfate	ND
98P endrin	ND
99P endrin aldehyde	ND
100P heptachlor	ND
101P heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-BHC	ND
106P PCB-1242	ND
107P PCB-1254	ND
108P PCB-1221	ND
109P PCB-1232	ND
110P PCB-1248	ND
111P PCB-1260	ND
112P PCB-1016	ND
113P toxaphene	ND

* = Less than 10 ug/l

(pesticides less than 5 ug/l)

ND = Not detected

** = Not confirmed by GCMS

WEST COAST TECHNICAL SERVICE INC.

ORGANICS ANALYSIS DATA SHEET - Page 3

QC Report No: 27

Sample Number
C0413

A. SURROGATE SPIKE RESULTS				
COMPOUND	Fraction	Conc.(ug/l)	(Surrogates only)	
			Spike Added (ug/l)	% Recovery
Benzene - d6	VOA	53	50	106
1-Chloro-2-Bromopropane	VOA	48	50	96
Toluene - d8	VOA	50	50	100
2-Fluorophenol	ACID	5	142	4
Phenol - d5	ACID	4	103	4
Nitrobenzene - d5	B/N	79	98	81
2-Fluorobiphenyl	B/N	87	100	87
Naphthalene-D8	B/N	88	102	86

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	FRACTION	% Maximum Score Attained Mass Matching Routine: FIT (specify)
1.		UNKNOWN	VOA#45	NO GOOD FIT
2.		UNKNOWN	VOA#187	NO GOOD FIT
3.		UNKNOWN	ACID#79	NO GOOD FIT
4.		UNKNOWN	ACID#116	NO GOOD FIT ORIGINAL
5.		UNKNOWN	ACID#142	NO GOOD FIT (Red)
6.		UNKNOWN	ACID#157	NO GOOD FIT
7.		DODECANOIC ACID	ACID#203	979
8.		UNKNOWN	ACID#242	NO GOOD FIT
9.		UNKNOWN	ACID#290	NO GOOD FIT
10.		UNKNOWN	ACID#448	NO GOOD FIT
11.		1,1,1,2-TETRACHLORO-		
12.		PROPANE	B/N#42	834
13.		UNKNOWN	B/N#68	NO GOOD FIT
14.		UNKNOWN	B/N#217	NO GOOD FIT
15.		UNKNOWN	B/N#270	NO GOOD FIT
16.				
17.				
18.				
19.				
20.				

PREPARATION PARAMETER RESULTS AND EXTRACTS

NEIC Sample No. 633-096Region Sample No. 1Sample Description Composite dredge spoil sample from locations #9 and #9A (Project: Pigeon Point Landfill)Collection Date 2/5/81Time 15:29/
16:05Reagent Blank 633-097¹⁰ 114

PARAMETER	AQUEOUS, NO. 1		SOLID, NO. 2	NON-AQUEOUS, NO.3
Percentage of sample (by volume)	N/A		100%	
% moisture	N/A		24%	N/A
pH			6	N/A
Alkalinity		mg/L as CaCO ₃	N/A ug/g as CaCO ₃	N/A
Acidity		mg/L as CaCO ₃	N/A ug/g as CaCO ₃	N/A
Conductivity	TDS ₁ =	mg/L	TDS ₁ = N/A ug/g	N/A
	TDS ₂ =	mg/L	TDS ₂ = N/A ug/g	N/A
Oxidants (spot test)			N/D	N/A
Oxidants (as Cl equivalents)		mg/L	N/A ug/g	N/A
Sulfide (spot test)			N/D	N/A
Sulfide		mg/L	N/A ug/g	N/A
Cyanide (spot test)			N/D	N/A
Cyanide		mg/L	N/A ug/g	N/A
Description	✓		reddish brown soil	

N/A - not applicable to this phase or sample
N/D - not detected

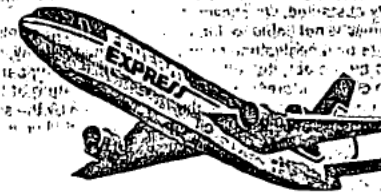
ORIGINAL
(Red)

PREPARATION-PARAMETER-RESULTS AND EXTRACTS

NEIC Sample No. 633-096Region Sample No. 1Sample Description Composite dredge spoil sample from locations #9 and #9A (Project: Pigeon Point Landfill)Collection Date 2/5/81Time 15:29/
16:05Reagent Blank 633-097 ¹⁰ 114

PARAMETER	ALIQUOT ^a	EXTRACT ^b	SHIPPED ^c
<u>Aqueous phase, No. 1</u>			
A - total metals			
C - total mercury			
D - strong acid anions			
E - base/neutral organics			
F - acidic (phenolic) organics			
H - volatile organics			
I - other			
<u>Solid phase, No. 2</u>			
A - total metals	0.102g	1.04g flux	1 fusion pellet
B - acid extractable metals	1.1g	100 ml	100 ml 0.1N HCl
C - total mercury	0.1g	10 ml	10 ml (in duplicate)
D - strong acid anions	1.0g	100 ml	100 ml H ₂ O
E - base/neutral organics	20.7g	47 ml	47 ml CH ₂ Cl ₂
F - acidic (phenolic) organics	20.7g	55 ml	55 ml CH ₂ Cl ₂
G - general organic extract	20.7g	104 ml	104 ml CH ₂ Cl ₂
H - other volatile organics	1.2g	440 ml	44 ml H ₂ O (in duplicate)
<u>Non-aqueous liquid phase, No. 3</u>			
A - total metals			ORIGINAL (Red)
G - general organic extract			
H - volatile organics			
I - other			
a Amount of original sample taken for preparation.			
b Volume of total prepared extract. Takes into account all dilutions.			
c Volume or weight of prepared extract sent to designated laboratory.			

ORIGINAL
(Red)

FEDERAL EXPRESS		AIRBILL NUMBER	
PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS			
YOUR FEDERAL EXPRESS ACCOUNT NUMBER 191-5634-6		DATE 2/5/81	
FROM (Your Name) non responsive based on revised scope		TO (Recipient's Name) Rob MAXFIELD	
COMPANY ECOLOGY AND ENVIRONMENTAL INC		COMPANY Versar Inc	
DEPARTMENT/FLOOR NO. PAUL 191		DEPARTMENT/FLOOR NO. 6621 Electronic Drive	
STREET ADDRESS Federal Express		STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE) 6621 Electronic Drive	
CITY Towaco NJ		CITY Springfield	
STATE PA		STATE Va	
AIRBILL NO. 0179800003		ZIP ACCURATE ZIP CODE REQUIRED FOR OVERNIGHT DELIVERY 22151	
YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE) SAM 03810117		IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM CARRIAGE HEREOF. F.E.C. DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS CORPORATION IS LIMITED TO \$100.00.	
PAYMENT <input type="checkbox"/> Bill Shipper <input type="checkbox"/> Bill Recipient's F.E.C. Acct. <input checked="" type="checkbox"/> Bill 3rd Party F.E.C. Acct. <input type="checkbox"/> Bill Credit Card		FEDERAL EXPRESS USE	
Account Number/Credit Card Number 2007574		FREIGHT CHARGES	
SERVICES CHECK ONLY ONE BOX		DECLARED VALUE CHARGE	
<input checked="" type="checkbox"/> PRIORITY ONE (P-1) <input type="checkbox"/> OVERNIGHT PACKAGED <input type="checkbox"/> COURIER PAK <input type="checkbox"/> OVERNIGHT ENVELOPE (up to 7 LBS) <input type="checkbox"/> OVERNIGHT BOX (up to 5 LBS) <input type="checkbox"/> OVERNIGHT TUBE (up to 5 LBS) <input type="checkbox"/> STANDARD AIR <input type="checkbox"/> DELIVERY 2ND BUSINESS DAY FOLLOWING PICK UP		<input type="checkbox"/> HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE <input checked="" type="checkbox"/> DELIVER <input type="checkbox"/> SATURDAY SERVICE REQUIRED <input type="checkbox"/> RESTRICTED ARTICLES SERVICE (P-1 and Standard Air Packages only, extra charge applies) <input type="checkbox"/> SSS Signature Security Service (up to 100 lbs) <input type="checkbox"/> FORTY-NETLE (up to 100 lbs) <input type="checkbox"/> OTHER SPECIAL SERVICE	
1 PIECES 1 WEIGHT 50 1 DECLARED VALUE 150 1 TOTAL 150		RECEIVED AT <input type="checkbox"/> SHIPPER'S DOOR <input type="checkbox"/> REGULAR STOP <input checked="" type="checkbox"/> ON-CALL STOP <input checked="" type="checkbox"/> F.E.C. LOC. Federal Express Corporation Employee No. 14262 DATE/TIME For Federal Express Use 2/5/81 1945	
"OVERNIGHT" IS DEFINED AS NEXT BUSINESS DAY (MONDAY THROUGH FRIDAY). SEE SPECIAL HANDLING FOR SATURDAY DELIVERY.		 PART # 2041734049 REVISION DATE 5-15-80 PRINTED USA	

SHIPPER'S COPY

FEDERAL EXPRESS		AIRBILL NUMBER	
PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE. SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS.			
YOUR FEDERAL EXPRESS ACCOUNT NUMBER 191-5634-6		DATE 2/5/81	
FROM (Your Name) EcoLogy and Environment Inc.		TO (Recipient's Name) Nonresponsive based on revised scope	
COMPANY/DEPARTMENT/FLOOR NO. DEPARTMENT/FLOOR NO.		COMPANY/DEPARTMENT/FLOOR NO. DEPARTMENT/FLOOR NO.	
STREET ADDRESS Federal Express PHL 191		STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE) West Coast Technical Service Inc.	
CITY Philadelphia PA		CITY Cerritos Ca	
AIRBILL NO.: 0179799992		ZIP ACCURATE ZIP CODE REQUIRED FOR CORRECT INVOICING 90701	
YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE) SAM 038101-17		IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM CARRIAGE HEREOF, F.E.C. DIS:	
PAYMENT <input type="checkbox"/> Bill Shipper <input type="checkbox"/> Bill Recipient's F.E.C. Acct. <input checked="" type="checkbox"/> Bill 3rd Party F.E.C. Acct. <input type="checkbox"/> Bill Credit Card <input type="checkbox"/> Cash in Advance		FEDERAL EXPRESS USE FREIGHT CHARGES DECLARED VALUE CHARGE	
SERVICES CHECK ONLY ONE BOX		DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED	
<input checked="" type="checkbox"/> PRIORITY ONE (P-1) <input type="checkbox"/> OVERNIGHT ENVELOPE (up to 7 lbs.) <input type="checkbox"/> OVERNIGHT TUBE (up to 5 lbs.) <input type="checkbox"/> OVERNIGHT TUBE (up to 5 lbs.) <input type="checkbox"/> STANDARD AIR <input type="checkbox"/> DELIVERY 2ND BUSINESS DAY FOLLOWING PICK-UP		<input type="checkbox"/> HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE <input checked="" type="checkbox"/> DELIVER <input type="checkbox"/> SATURDAY SERVICE REQUIRED <input type="checkbox"/> RESTRICTED ARTICLES SERVICE (P-1 and Standard Air Packages only, extra charge) <input type="checkbox"/> SSS (Signature Security Service required, extra charge applies) <input type="checkbox"/> DRY ICE <input type="checkbox"/> OTHER SPECIAL SERVICE	
PIECES 3		WEIGHT 70	
DECLARED VALUE 320		OS	
TOTAL 320		TOTAL	
RECEIVED AT SHIPPER'S DOOR REGULAR STOP ON-CALL F.E.C. LOC.		AGT/PRO AGT/PRO	
Federal Express Corporation Employee No. 4262		ADVANCE ORIGIN ADVANCE DESTINATION OTHER TOTAL CHARGES	
DATE/TIME For Federal Express Use 2/5/81 1915		PART # 2041734049 REVISION DATE 5-15-80 PRINTED USA	

[illegible]

Region Sample #1

JACOBS LABORATORIES

F-5. 2101-17

ADJ

U.S. Environmental Protection Agency
Page 3
Lab No. P81-05-177

Sample: 633-096-02 Sample from Locations #9 and #9A Pigeon Pt DE

<u>Fraction</u>	<u>Analysis</u>	<u>Compounds</u>	<u>Concentration, µg/kg</u>
E	Base/Neutral	Di-n-butyl phthalate	1,200
F	Acids	None detected	<1,000
G	General Organics	Di-n-butyl phthalate	3,700
		Phenanthrene	250
		Bis (2-ethylhexyl) phthalate	640
		N-Nitrosodiphenylamine	76
H	Volatiles	Methylene chloride	3,100,000

Nonpriority Pollutants

<u>Fraction</u>	<u>Compound</u>
G	4-hydroxy-4-methoxy-2-pentanone
H	2-Butanone
	3-Methylbutanone
	2-Pentanone
	Methyl ester of butanoic acid

617 935 0238

ORIGINAL
(Red)

3-0228



ORGANICS TRAFFIC REPORT

① Case Number:

393

Sample Site Name/Code:

Pigeon Point Landfill

DE-27

F3-8101-17

② Sample Type: (Check One)

☒ Run Off

☐ Well

☐ Receiving Water

☒ Leachate

☐ Effluent

☐ Other (specify) _____

③ Ship To:

West Coast Technical Service
17605 Fabrica Way
Suite D
Cerritos, Ca 90701

Attn:

Nonresponsive based on revised scope

④ Regional Office:

non responsive based on revised scope

(Name)

609 665-1515

(Phone)

Sampling Date:

2/5/81 2/5/81

(Begin)

(End)

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

Extractable

2-5-81

Extractable

2-5-81

Extractable

2-5-81

Extractable

2-5-81

VOA Unpreserved

2-5-81

VOA Unpreserved
(Duplicate)

2-5-81

⑥ Shipping Information

Ecology + Environment

Name of Shipper:

2/5/81

Date Shipped:

017979999.2

Airbill Number:

⑦ Description of Sample Location:

SL #7, South Leachate Pond

atches Invorg. # NC-8172

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

ORIGINAL
(Red)

REGIONAL OFFICE FILE COPY

U.S. ENVIRONMENTAL PROTECTION AGENCY
Hazardous Waste Investigation
Sample Management Office
P.O. Box 818
Alexandria, Virginia 22313
Phone: (703) 557-2490/FTS-8-557-2490

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Organic Traffic Reports (OTR), Organics Laboratory Chronicle—Extractions (OLC-E) and/or Organics Laboratory Chronicle—Analysis (OLC-A) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the OTR's and OLC's.
6. Relate any problems and/or questions concerning SMO procedures or the use of OTR's or OLC's to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Organics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-8).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. **Where necessary, protect the label from water and solvent attack with clear plastic tape.**
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 8, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 6. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each OTR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the OTR and all copies of the OLC-E and OLC-A in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory. Upon completion by the laboratory, SMO will forward a copy of the OLC-E and OLC-A for inclusion in Regional files.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 9 of the Organics Traffic Report (OTR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the OTR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with extraction, recording all pertinent information on the corresponding Organics Laboratory Chronicle—Extractions (OLC-E).
5. Identify each extracted sample using the pre-printed labels provided.
6. Upon completion of extraction, send the first two pages (white and pink copies) of the OLC-E to the HWI Sample Management Office, retaining the last page (yellow copy) for your files.
7. Proceed with analysis, recording all pertinent comments on the Organics Laboratory Chronicle—Analysis (OLC-A) and/or in the narrative section of your Weekly Report.
8. Upon completion of final analysis, send the first two pages (white and pink copies) of the OLC-A to the HWI Sample Management Office and retain the last page (yellow copy) for your files.
9. For each complete sample analyzed, the Analysis Data, Surrogate Spike and Tentatively Identified Compound Report and Quality Control Report (Parts A and B) are to be completed and copies sent to the HWI Sample Management Office, the respective USEPA Regional Project Officer, NEIC and EMSL-LV.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Saml
P.O. Box 818, Alexandria, Virginia 22313-703/557-2490 • FTS/557-2490

Management Office

Sample Number

C 0415

ORGANICS TRAFFIC REPORT

① Case Number:

393

Sample Site Name/Code:

Pigeon Point Landfill
DE-27

F3-8101-17

② Sample Type: (Check One)

- ☐ Run Off
☐ Well
☐ Receiving Water
☒ Leachate
☐ Effluent
☐ Other (specify) _____

③ Ship To:

West Coast Technical Service
17605 Fabrica Way
Suite 1
Cerritos, Ca 90701

Attn:

Nonresponsive based on revised scope

④ Regional Office: 3

Sampling Personnel:

non responsive based on revised scope

(Name)

609 665-1515

(Phone)

Sampling Date:

2/5/81 2/5/81

(Begin)

(End)

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

Extractable

2/5/81

Extractable

2/5/81

Extractable

2/5/81

Extractable

2/5/81

VOA Unpreserved

2/5/81

VOA Unpreserved
(Duplicate)

2/5/81

⑥ Shipping Information

Ecology + Environment

Name of Shipper:

2/5/81

Date Shipped:

0179799992

Airbill Number:

⑦ Description of Sample Location:

SL # 8, outfall Perimeter leachate collection
system.

time 1330

Makes inorganic # MC-8173

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

ORIGINAL
(Red)

REGIONAL OFFICE FILE COPY

101-17-13

U.S. ENVIRONMENTAL PROTECTION AGENCY

Hazardous Waste Investigation

Sample Management Office

P.O. Box 818

Alexandria, Virginia 22313

Phone: (703) 557-2490/FTS-8-557-2490

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Organic Traffic Reports (OTR), Organics Laboratory Chronicle—Extractions (OLC-E) and/or Organics Laboratory Chronicle—Analysis (OLC-A) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the OTR's and OLC's.
6. Relate any problems and/or questions concerning SMO procedures or the use of OTR's or OLC's to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Organics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-8).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. **Where necessary, protect the label from water and solvent attack with clear plastic tape.**
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 8, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 6. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each OTR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the OTR and all copies of the OLC-E and OLC-A in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory. Upon completion by the laboratory, SMO will forward a copy of the OLC-E and OLC-A for inclusion in Regional files.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 9 of the Organics Traffic Report (OTR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the OTR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with extraction, recording all pertinent information on the corresponding Organics Laboratory Chronicle—Extractions (OLC-E).
5. Identify each extracted sample using the pre-printed labels provided.
6. Upon completion of extraction, send the first two pages (white and pink copies) of the OLC-E to the HWI Sample Management Office, retaining the last page (yellow copy) for your files.
7. Proceed with analysis, recording all pertinent comments on the Organics Laboratory Chronicle—Analysis (OLC-A) and/or in the narrative section of your Weekly Report.
8. Upon completion of final analysis, send the first two pages (white and pink copies) of the OLC-A to the HWI Sample Management Office and retain the last page (yellow copy) for your files.
9. For each complete sample analyzed, the Analysis Data, Surrogate Spike and Tentatively Identified Compound Report and Quality Control Report (Parts A and B) are to be completed and copies sent to the HWI Sample Management Office, the respective USEPA Regional Project Officer, NEIC and EMSL-LV.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313-703/557-2490 • FTS/557-2490

Management Office

Sample Number

C 0412

ORGANICS TRAFFIC REPORT

① Case Number: <u>393</u>	② Sample Type: (Check One) <input checked="" type="checkbox"/> Run Off <input type="checkbox"/> Well <input type="checkbox"/> Receiving Water <input type="checkbox"/> Leachate <input type="checkbox"/> Effluent <input type="checkbox"/> Other (specify) _____	③ Ship To: <u>West Coast Technical Service</u> <u>17605 Fabrica Way</u> <u>Suite D</u> <u>Cerritos, Ca</u> <u>90701</u> Attn: <u>Nonresponsive based on revised scope</u>
Sample Site Name/Code: <u>Pigeon Point Landfill</u> <u>DE-27</u> <u>F3-8101-17</u>		

④ Regional Office: <u>non responsive based on revised scope</u>	⑤ Mark Volume Level on Sample Bottle	Date Sampled
(Name) <u>609 665-1575</u>	Extractable	<u>2/5/01</u>
(Phone) <u>2/5/01 2/5/01</u>	Extractable	<u>2/5/01</u>
Sampling Date: (Begin) (End)	Extractable	<u>2/5/01</u>
⑥ Shipping Information	Extractable	<u>2/5/01</u>
<u>Ecology + Environment</u>	VOA Unpreserved	<u>2/5/01</u>
Name of Shipper: <u>2/5/01</u>	VOA Unpreserved (Duplicate)	<u>2/5/01</u>
Date Shipped:		
<u>017979992</u>		
Airbill Number:		

⑦ Description of Sample Location:
SL#5, North Swale Drainage
1540

Matekos Inorganic # MC 8170

⑧ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

**ORIGINAL
(Red)**

REGIONAL OFFICE FILE COPY

U.S. ENVIRONMENTAL PROTECTION AGENCY
Hazardous Waste Investigation
Sample Management Office
P.O. Box 818
Alexandria, Virginia 22313
Phone: (703) 557-2490/FTS-8-557-2490

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Organic Traffic Reports (OTR), Organics Laboratory Chronicle—Extractions (OLC-E) and/or Organics Laboratory Chronicle—Analysis (OLC-A) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the OTR's and OLC's.
6. Relate any problems and/or questions concerning SMO procedures or the use of OTR's or OLC's to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Organics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-8).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. **Where necessary, protect the label from water and solvent attack with clear plastic tape.**
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 8, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 6. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each OTR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the OTR and all copies of the OLC-E and OLC-A in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory. Upon completion by the laboratory, SMO will forward a copy of the OLC-E and OLC-A for inclusion in Regional files.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 9 of the Organics Traffic Report (OTR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the OTR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with extraction, recording all pertinent information on the corresponding Organics Laboratory Chronicle—Extractions (OLC-E).
5. Identify each extracted sample using the pre-printed labels provided.
6. Upon completion of extraction, send the first two pages (white and pink copies) of the OLC-E to the HWI Sample Management Office, retaining the last page (yellow copy) for your files.
7. Proceed with analysis, recording all pertinent comments on the Organics Laboratory Chronicle—Analysis (OLC-A) and/or in the narrative section of your Weekly Report.
8. Upon completion of final analysis, send the first two pages (white and pink copies) of the OLC-A to the HWI Sample Management Office and retain the last page (yellow copy) for your files.
9. For each complete sample analyzed, the Analysis Data, Surrogate Spike and Tentatively Identified Compound Report and Quality Control Report (Parts A and B) are to be completed and copies sent to the HWI Sample Management Office, the respective USEPA Regional Project Officer, NEIC and EMSL-LV.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sam Management Office
P.O. Box 818, Alexandria, Virginia 22313-703/557-2490 • FTS/557-2490

Management Office

Sample Number

C 0413

ORGANICS TRAFFIC REPORT

① Case Number:

393

Sample Site Name/Code:

Pigeon Point Landfill

DE-27

F3-8101-17

② Sample Type: (Check One)

- ☐ Run Off
☒ Well
☐ Receiving Water
☐ Leachate
☐ Effluent
☐ Other (specify) _____

③ Ship To:

West Coast Technical Service
17605 Fabrica Way
Suite D
Cerritos, Ca 90701

Attn:

Nonresponsive based on revised scope

④ Regional Office:

Sampling Personnel:
non responsive based on revised scope

(Name)

609 665-1515

(Phone)

Sampling Date:

2-5-81

2-5-81

(Begin)

(End)

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

Extractable

2-5-81

Extractable

2-5-81

Extractable

2-5-81

Extractable

2-5-81

VOA Unpreserved

2-5-81

VOA Unpreserved
(Duplicate)

2-5-81

⑥ Shipping Information

Ecology + Environment

Name of Shipper:

2-5-81

Date Shipped:

0179799992

Airbill Number:

⑦ Description of Sample Location:

SL # 6 Pigeon Point Well # 28

Matches Inorganic # ~~AC-8171~~ AC-8171

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

ORIGINAL
(Red)

REGIONAL OFFICE FILE COPY

U.S. ENVIRONMENTAL PROTECTION AGENCY
Hazardous Waste Investigation
Sample Management Office
P.O. Box 818
Alexandria, Virginia 22313
Phone: (703) 557-2490 / FTS-8-557-2490

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Organic Traffic Reports (OTR), Organics Laboratory Chronicle—Extractions (OLC-E) and/or Organics Laboratory Chronicle—Analysis (OLC-A) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the OTR's and OLC's.
6. Relate any problems and/or questions concerning SMO procedures or the use of OTR's or OLC's to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Organics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-8).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. **Where necessary, protect the label from water and solvent attack with clear plastic tape.**
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 8, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 6. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each OTR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the OTR and all copies of the OLC-E and OLC-A in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory. Upon completion by the laboratory, SMO will forward a copy of the OLC-E and OLC-A for inclusion in Regional files.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 9 of the Organics Traffic Report (OTR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the OTR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with extraction, recording all pertinent information on the corresponding Organics Laboratory Chronicle—Extractions (OLC-E).
5. Identify each extracted sample using the pre-printed labels provided.
6. Upon completion of extraction, send the first two pages (white and pink copies) of the OLC-E to the HWI Sample Management Office, retaining the last page (yellow copy) for your files.
7. Proceed with analysis, recording all pertinent comments on the Organics Laboratory Chronicle—Analysis (OLC-A) and/or in the narrative section of your Weekly Report.
8. Upon completion of final analysis, send the first two pages (white and pink copies) of the OLC-A to the HWI Sample Management Office and retain the last page (yellow copy) for your files.
9. For each complete sample analyzed, the Analysis Data, Surrogate Spike and Tentatively Identified Compound Report and Quality Control Report (Parts A and B) are to be completed and copies sent to the HWI Sample Management Office, the respective USEPA Regional Project Officer, NEIC and EMSL-LV.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313-703/557-2490 • FTS/557-2490

Sample Number

C 0410

ORGANICS TRAFFIC REPORT

① Case Number:
393

Sample Site Name/Code:

Pigeon Point Landfill

DE 27

F3-8101-17

② Sample Type: (Check One)

☐ Run Off

☒ Well

☐ Receiving Water

☐ Leachate

☐ Effluent

☐ Other (specify) _____

③ Ship To:

West Coast Technical Service
17605 Fabrica Way
Suite D
Cerritos, Ca 90701

Attn:

Nonresponsive based on revised scope

④ Regional Office:

non responsive based on revised scope

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

(Name)

609665-1515

(Phone)

Sampling Date:

02/05/81 02/05/81

(Begin)

(End)

Extractable

02/05/81

Extractable

2/5/81

Extractable

2/5/81

⑥ Shipping Information

Ecology + Environment

Name of Shipper:

2/5/81

Date Shipped:

017979992

Airbill Number:

Extractable

2/5/81

VOA Unpreserved

2/5/81

VOA Unpreserved
(Duplicate)

2/5/81

⑦ Description of Sample Location:

SL #3 Pigeon Point Well #1A

Matches Inorganic MC-8168

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

ORIGINAL
(Red)

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SAMPLER DIRECTIONS

1. Note that a separate prenumbered Organics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-8).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. **Where necessary, protect the label from water and solvent attack with clear plastic tape.**
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 8, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 6. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each OTR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the OTR and all copies of the OLC-E and OLC-A in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory. Upon completion by the laboratory, SMO will forward a copy of the OLC-E and OLC-A for inclusion in Regional files.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 9 of the Organics Traffic Report (OTR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the OTR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with extraction, recording all pertinent information on the corresponding Organics Laboratory Chronicle—Extractions (OLC-E).
5. Identify each extracted sample using the pre-printed labels provided.
6. Upon completion of extraction, send the first two pages (white and pink copies) of the OLC-E to the HWI Sample Management Office, retaining the last page (yellow copy) for your files.
7. Proceed with analysis, recording all pertinent comments on the Organics Laboratory Chronicle—Analysis (OLC-A) and/or in the narrative section of your Weekly Report.
8. Upon completion of final analysis, send the first two pages (white and pink copies) of the OLC-A to the HWI Sample Management Office and retain the last page (yellow copy) for your files.
9. For each complete sample analyzed, the Analysis Data, Surrogate Spike and Tentatively Identified Compound Report and Quality Control Report (Parts A and B) are to be completed and copies sent to the HWI Sample Management Office, the respective USEPA Regional Project Officer, NEIC and EMSL-LV.



ORGANICS TRAFFIC REPORT

① Case Number:

393

Sample Site Name/Code:

Pigeon Point Landfill

DE-27

F3-8101-17

② Sample Type: (Check One)

☐ Run Off

☒ Well

☐ Receiving Water

☐ Leachate

☐ Effluent

☐ Other (specify) _____

③ Ship To:

West Coast Technical Service
17005 Fabrica Way
Suite D
Cerritos, Ca 90701

Nonresponsive based on revised scope

④ Regional Office:

3

non responsive based on revised scope

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

(Name)

609 665-1515

(Phone)

Sampling Date:

2/5/81 2/5/81

(Begin)

(End)

Extractable

2/5/81

Extractable

2/5/81

Extractable

2/5/81

⑥ Shipping Information

Extractable

2/5/81

VOA Unpreserved

2/5/81

VOA Unpreserved
(Duplicate)

2/5/81

Ecology + Environment

Name of Shipper:

2/5/81

Date Shipped:

0179799992

Airbill Number:

⑦ Description of Sample Location:

Atlas Point Plant, Well # 9
SL # 2

Matches Inorganic # MC-8167

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

ORIGINAL
(Red)

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Hazardous Waste Investigation
Sample Management Office
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Phone: (703) 557-2490/FTS-8-557-2490

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6. Relate any problems and/or questions concerning SMO procedures or the use of OTR's or OLC's to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Organics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-8).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. **Where necessary, protect the label from water and solvent attack with clear plastic tape.**
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 8, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
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7. Insert the remaining two copies (white and yellow) of the OTR and all copies of the OLC-E and OLC-A in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory. Upon completion by the laboratory, SMO will forward a copy of the OLC-E and OLC-A for inclusion in Regional files.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 9 of the Organics Traffic Report (OTR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the OTR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with extraction, recording all pertinent information on the corresponding Organics Laboratory Chronicle—Extractions (OLC-E).
5. Identify each extracted sample using the pre-printed labels provided.
6. Upon completion of extraction, send the first two pages (white and pink copies) of the OLC-E to the HWI Sample Management Office, retaining the last page (yellow copy) for your files.
7. Proceed with analysis, recording all pertinent comments on the Organics Laboratory Chronicle—Analysis (OLC-A) and/or in the narrative section of your Weekly Report.
8. Upon completion of final analysis, send the first two pages (white and pink copies) of the OLC-A to the HWI Sample Management Office and retain the last page (yellow copy) for your files.
9. For each complete sample analyzed, the Analysis Data, Surrogate Spike and Tentatively Identified Compound Report and Quality Control Report (Parts A and B) are to be completed and copies sent to the HWI Sample Management Office, the respective USEPA Regional Project Officer, NEIC and EMSL-LV.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313-703/557-2490 • FTS/557-2490

Sample Number

C 0408

ORGANICS TRAFFIC REPORT

① Case Number:
393

② Sample Type: (Check One)

☐ Run Off
☒ Well
☐ Receiving Water
☐ Leachate
☐ Effluent
☐ Other (specify) _____

③ Ship To:

West Coast Technical Service
17605 Fabrica Way
Suite D
Cerritos, Ca 90701

Attn:

Nonresponsive based on revised scope

④ Regional Office: 3

⑤ Mark Volume Level on Sample Bottle

non responsive based on revised scope

(Name)
609 665-1515
(Phone)
Sampling Date:
2/5/81 2/5/81
(Begin) (End)

Date Sampled

Extractable 2/5/81

Extractable 2/5/81

Extractable 2/5/81

⑥ Shipping Information

Ecology + Environment

Name of Shipper:

2/5/81

Date Shipped:

0179799992

Airbill Number:

Extractable 2/5/81

VOA Unpreserved 2/5/81

VOA Unpreserved (Duplicate) 2/5/81

⑦ Description of Sample Location:

SL# 1, Artesian Water Co. Well # 3

Matches Inorganic # MC 8166

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

ORIGINAL
(Red)

REGIONAL OFFICE FILE COPY

U.S. ENVIRONMENTAL PROTECTION AGENCY
Hazardous Waste Investigation
Sample Management Office
P.O. Box 818
Alexandria, Virginia 22313
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GENERAL DIRECTIONS

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6. Relate any problems and/or questions concerning SMO procedures or the use of OTR's or OLC's to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Organics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-8).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. **Where necessary, protect the label from water and solvent attack with clear plastic tape.**
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 8, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 6. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
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7. Insert the remaining two copies (white and yellow) of the OTR and all copies of the OLC-E and OLC-A in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory. Upon completion by the laboratory, SMO will forward a copy of the OLC-E and OLC-A for inclusion in Regional files.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 9 of the Organics Traffic Report (OTR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the OTR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with extraction, recording all pertinent information on the corresponding Organics Laboratory Chronicle—Extractions (OLC-E).
5. Identify each extracted sample using the pre-printed labels provided.
6. Upon completion of extraction, send the first two pages (white and pink copies) of the OLC-E to the HWI Sample Management Office, retaining the last page (yellow copy) for your files.
7. Proceed with analysis, recording all pertinent comments on the Organics Laboratory Chronicle—Analysis (OLC-A) and/or in the narrative section of your Weekly Report.
8. Upon completion of final analysis, send the first two pages (white and pink copies) of the OLC-A to the HWI Sample Management Office and retain the last page (yellow copy) for your files.
9. For each complete sample analyzed, the Analysis Data, Surrogate Spike and Tentatively Identified Compound Report and Quality Control Report (Parts A and B) are to be completed and copies sent to the HWI Sample Management Office, the respective USEPA Regional Project Officer, NEIC and EMSL-LV.



ORGANICS TRAFFIC REPORT

① Case Number:

393

Sample Site Name/Code:

Pigeon Point Landfill

DE-27

F3-8101-17

② Sample Type: (Check One)

- ☐ Run Off
☐ Well
☐ Receiving Water
☐ Leachate
☐ Effluent

☒ Other (specify) Sample Blank

③ Ship To:

West Coast Technical
Service 17605 Fabrica
Way Suite D
Cerritos, Ca.
90301

Nonresponsive based on revised scope

④ Regional Office: 3

Sampling Personnel:

non responsive based on revised scope

(Name)

609-665-1515

(Phone)

Sampling Date:

2/5/81

2/5/81

(Begin)

(End)

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

Extractable

2/5/81

Extractable

2/5/81

Extractable

2/5/81

⑥ Shipping Information

Ecology and Environment
Inc.

Name of Shipper:

2/5/81

Date Shipped:

0179799992

Airbill Number:

Extractable

2/5/81

VOA Unpreserved

2/5/81

VOA Unpreserved
(Duplicate)

2/5/81

⑦ Description of Sample Location:

Sample Blank

Matches Inorganic # MC-8173

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

ORIGINAL
(Red)

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Hazardous Waste Investigation

Sample Management Office

P.O. Box 818

Alexandria, Virginia 22313

Phone: (703) 557-2490/FTS-8-557-2490

GENERAL DIRECTIONS

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SAMPLER DIRECTIONS

1. Note that a separate prenumbered Organics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-8).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. **Where necessary, protect the label from water and solvent attack with clear plastic tape.**
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 8, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
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ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
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5. Identify each extracted sample using the pre-printed labels provided.
6. Upon completion of extraction, send the first two pages (white and pink copies) of the OLC-E to the HWI Sample Management Office, retaining the last page (yellow copy) for your files.
7. Proceed with analysis, recording all pertinent comments on the Organics Laboratory Chronicle—Analysis (OLC-A) and/or in the narrative section of your Weekly Report.
8. Upon completion of final analysis, send the first two pages (white and pink copies) of the OLC-A to the HWI Sample Management Office and retain the last page (yellow copy) for your files.
9. For each complete sample analyzed, the Analysis Data, Surrogate Spike and Tentatively Identified Compound Report and Quality Control Report (Parts A and B) are to be completed and copies sent to the HWI Sample Management Office, the respective USEPA Regional Project Officer, NEIC and EMSL-LV.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample
P.O. Box 818, Alexandria, Virginia 22313-703/557-2490 • FTS/557-2490

Management Office

Sample Number

C 0411

ORGANICS TRAFFIC REPORT

① Case Number:

393

Sample Site Name/Code:

Pigeon Point Landfill

DE-29

F3-8101-17

② Sample Type: (Check One)

☒ Run Off

☐ Well

☐ Receiving Water

☐ Leachate

☐ Effluent

☐ Other (specify) _____

③ Ship To:

West Coast Technical Service
17605 Fabrica Way
Suite D
Cerritos, Ca 90701

Attn:

Nonresponsive based on revised scope

④ Regional Office:

Sampling Personnel:

non responsive based on revised scope

(Name)

609-665-1515

(Phone)

Sampling Date:

2/5/81 2/5/81

(Begin)

(End)

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

Extractable

2/5/81

Extractable

2/5/81

Extractable

2/5/81

Extractable

2/5/81

VOA Unpreserved

2/5/81

VOA Unpreserved
(Duplicate)

2/5/81

⑥ Shipping Information

Ecology + Environment Inc.

Name of Shipper:

2/5/81

Date Shipped:

A17979992

Airbill Number:

⑦ Description of Sample Location:

SL# 4 Northwest Drainage Pond.

Matches Inorganic # MC-8169

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

ORIGINAL
(Red)

REGIONAL OFFICE FILE COPY

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SAMPLER DIRECTIONS

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3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. Where necessary, protect the label from water and solvent attack with clear plastic tape.
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ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
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4. Proceed with extraction, recording all pertinent information on the corresponding Organics Laboratory Chronicle—Extractions (OLC-E).
5. Identify each extracted sample using the pre-printed labels provided.
6. Upon completion of extraction, send the first two pages (white and pink copies) of the OLC-E to the HWI Sample Management Office, retaining the last page (yellow copy) for your files.
7. Proceed with analysis, recording all pertinent comments on the Organics Laboratory Chronicle—Analysis (OLC-A) and/or in the narrative section of your Weekly Report.
8. Upon completion of final analysis, send the first two pages (white and pink copies) of the OLC-A to the HWI Sample Management Office and retain the last page (yellow copy) for your files.
9. For each complete sample analyzed, the Analysis Data, Surrogate Spike and Tentatively Identified Compound Report and Quality Control Report (Parts A and B) are to be completed and copies sent to the HWI Sample Management Office, the respective USEPA Regional Project Officer, NEIC and EMSL-LV.

PROJ. NO.		PROJECT NAME		ORIGINAL (Red)		NO. OF CON- TAINERS		REMARKS															
STA. NO.		DATE	TIME	COMP.	GRAB	STATION LOCATION																	
03-8101-17		Pigeon Point Landfill																					
non responsive based on revised scope																							
MC8166		2/5/81	1020		X	SL#1 Artesian ^{Water Lo} Well #		1	1							Tag 3-1205							
MC8167		2/5/81	1120		X	SL#2 Atlas Point Plant Well #		1	1							Tag 3-1251							
MC8168		2/5/81	1035		X	SL#3 Pigeon Point Well #1A		1	1							Tag 3-1257							
MC8169		2/5/81	1240		X	SL#4 Northwest Drainage Pond		1	1							Tag 3-1263							
MC8170		2/5/81	1540		X	SL#5 North Swale Drainage		1	1							Tag 3-1269							
MC8171		2/5/81	1500		X	SL#6 Pigeon Point Well #28		1	1							Tag 3-1275							
MC8172		2/5/81	1415		X	SL#7 South Leachate Pond		1	1							Tag 3-1281							
MC8173		2/5/81	1330		X	SL#8 Outfall perimeter leachate collector system		1	1							Tag 3-1288							
MC8173						Sample Blank		1	1							Tag 3-1293							
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)							
non responsive based on revised scope		2/5/81 1645																					
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)							
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks															
								SHIPPED VIA FEDERAL EXPRESS															

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ORIGINAL
(Red)

CHAIN OF CUSTODY RECORD

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

PROJ. NO.		PROJECT NAME				NO. OF CON- TAINERS		REMARKS									
03-8101-17		PIGEON POINT LANDFILL		non responsive based on revised scope													
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION												
C-0408	2/5/81	1020		X	SL#1, Artesian Water Co Well #	6	4	2							Tag #'s ¹²⁰⁴ 1202 - 1202, 1244, 1245		
C-0409	2/5/81	1120		X	SL#2 Atlas Point Plant Well #	6	4	2							" 1246-1250		
C-0410	2/5/81	1035		X	SL#3 Pigeon Point Well # 1A	6	4	2							" 1252-1256		
C-0411	2/5/81	1240		X	SL#4 Northwest Drainage Pond	6	4	2							" 1258-1262		
C-0412	2/5/81	1540		X	SL#5 North Swale Drainage	6	4	2							" 1264-1268		
C-0413	2/5/81	1500		X	SL#6 Pigeon Point Well # 2B	6	4	2							" 1270-1274		
C-0414	2/5/81	1415		X	SL#7 South Leachate Pond	6	4	2							" 1276-1280		
C-0415	2/5/81	1330		X	outfall, perimeter leachate collection system	6	4	2							" 1282-1286		
C-0416	2/5/81				Sample Blank	6	4	2							" 1289 - 1290 1292, 1294		
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
		2/5/81 1720															
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks									
								SHIPPED VIA FEDERAL EXPRESS.									

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sampling Management Office
P.O. Box 818, Alexandria, VA 22313-703/557-2490 FTS/557-2490

Sample Number

MC 8168

INORGANICS TRAFFIC REPORT

① Case Number: 393

Sample Site Name/Code:

Digson Point Landfill

NE-27

F3-8101-17

② Sample Type: (Check One)

☐ Run Off

☒ Well Water

☐ Receiving Water

☐ Leachate

☐ Effluent

☐ Other

ORIGINAL
(Red)

(specify)

③ Ship To: Versar Inc.
6621 Electronic Dr
Springfield, Va. 22151

Attn: Nonresponsive based on revised scope

④ Regional Office: 3

Sampling Personnel:

(Name)

non responsive based on revised scope

(Phone)

809-665-1315

Sampling Date:

(Begin)

2/5/81 (End) 2/5/81

⑤ Shipping Information:

Name Of Shipper:

Ecology + Environment

Date Shipped:

2/5/81

Airbill Number:

0179800003

⑥ Description of Sample Location

Digson Point well # 1A

SL # 3

⑦ Mark Volume Level On Sample Bottle

Date Sampled

Task 1 & 2

2/5/81

Task 3

Ammonia & TOC

Fluoride & pH

Sulfide

Cyanide

MATCHES ORGANICS SAMPLE NO.

C-0910

REGIONAL OFFICE FILE COPY

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Inorganics Traffic Reports (ITR) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the (ITR's).
6. Relate any problems and/or questions concerning SMO procedures or the use of (ITR's) to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Inorganics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-7).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided.
Where necessary, protect the label from water and solvent attack with clear plastic tape.
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 6, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 5. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each ITR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the ITR in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 8 of the Inorganics Traffic Report (ITR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the ITR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with analysis, recording all pertinent comments on the Inorganics Data Sheets, QC Reports and/or in the narrative section of your Weekly Report.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sar e Management Office
P.O. Box 818, Alexandria, VA 22313-703/557-2490 • FTS/557-2490

Sample Number

MC 8167

INORGANICS TRAFFIC REPORT

① Case Number: 385

Sample Site Name/Code:

Atlas Point Plant

21-27

E2-2101-17

② Sample Type: (Check One)

☐ Run Off

☒ Well Water

☐ Receiving Water

☐ Leachate

☐ Effluent

☐ Other _____

ORIGINAL
(Red)

(specify)

③ Ship To: Versar Inc

6621 Electronic Dr
Springfield, Va 22151

Attn:

Nonresponsive based on revised scope

④ Regional Office: 3

Sampling Personnel:

non responsive based on revised scope

(Name)

(Phone)

822 003 15 15

Sampling Date:

(Begin) 2/5/81 (End) 2/5/81

⑤ Shipping Information:

Name Of Shipper:

Ecology + Environment Inc

Date Shipped:

2/5/81

Airbill Number: 0179800003

⑥ Description of Sample Location

Atlas Point Plant

well # 9

SL# 2

MATCHES ORGANICS SAMPLE NO. C-0409

⑦ Mark Volume Level On Sample Bottle

Date Sampled

2/5/81

Task 1 & 2

Task 3

Ammonia & TOC

Fluoride & pH

Sulfide

Cyanide

REGIONAL OFFICE FILE COPY

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Inorganics Traffic Reports (ITR) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the (ITR's).
6. Relate any problems and/or questions concerning SMO procedures or the use of (ITR's) to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Inorganics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-7).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. Where necessary, protect the label from water and solvent attack with clear plastic tape.
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 6, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 5. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each ITR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the ITR in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 8 of the Inorganics Traffic Report (ITR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the ITR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with analysis, recording all pertinent comments on the Inorganics Data Sheets, QC Reports and/or in the narrative section of your Weekly Report.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sar e Management Office
P.O. Box 818, Alexandria, VA 22313-703/557-2490 FTS/557-2490

Sample Number

MC 8172

INORGANICS TRAFFIC REPORT

① Case Number: 392

Sample Site Name/Code:

Pigeon Point Landfill

DE-27

E2-8101-17

② Sample Type: (Check One)

- ☒ Run Off
☐ Well Water
☐ Receiving Water
☒ Leachate
☐ Effluent
☐ Other _____

ORIGINAL
(Red)

(specify)

③ Ship To:

Versar Inc.
6621 Electronic Drive
Springfield, Va 22151

Attn:

Nonresponsive based on revised scope

④ Regional Office: 3

Sampling Personnel:

non responsive based on revised scope

(Name)

(Phone) 604 665-1515

Sampling Date:

(Begin) 2-5-81 (End) 2-5-81

⑤ Shipping Information:

Name Of Shipper:

Ecology + Environment Inc

Date Shipped: 2/5/81

Airbill Number: 6179800003

⑥ Description of Sample Location

SLF7 South Leachate
Pond

⑦ Mark Volume Level On Sample Bottle

Date Sampled

Task 1 & 2 X 2-5-81

Task 3 Ammonia & TOC _____
Fluoride & pH _____
Sulfide _____
Cyanide _____

MATCHES ORGANICS SAMPLE NO. C-0414

REGIONAL OFFICE FILE COPY

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Inorganics Traffic Reports (ITR) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the (ITR's).
6. Relate any problems and/or questions concerning SMO procedures or the use of (ITR's) to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Inorganics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-7).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. Where necessary, protect the label from water and solvent attack with clear plastic tape.
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 6, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 5. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each ITR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the ITR in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 8 of the Inorganics Traffic Report (ITR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the ITR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with analysis, recording all pertinent comments on the Inorganics Data Sheets, QC Reports and/or in the narrative section of your Weekly Report.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313-703/557-2490 • FTS/557-2490

Sample Number

MC 0173

INORGANICS TRAFFIC REPORT

① Case Number: 393

Sample Site Name/Code:

AF-21

AF-21

AF-2101-17

② Sample Type: (Check One)

- ☐ Run Off
☐ Well Water
☐ Receiving Water
☒ Leachate
☐ Effluent
☐ Other _____

ORIGINAL
(Red)

(specify)

③ Ship To: Versar Inc

6621 Electronic Dr.
Springfield, Va 22151

Attn: Nonresponsive based on revised scope

④ Regional Office: 3

Sampling Personnel:

(Name) non responsive based on revised scope

(Phone) 804 665-1515

Sampling Date:

(Begin) 2/15/81 (End) 2/15/81

⑤ Shipping Information:

Name Of Shipper:

Ecology & Environment Inc

Date Shipped: 2/15/81

Airbill Number: 0179800003

⑥ Description of Sample Location

Sample Blank
Auth: Organic C-0416

Outfall, perimeter institute
collection system

MATCHES ORGANICS SAMPLE NO. 60415

⑦ Mark Volume Level On Sample Bottle

Date Sampled

Task 1 & 2 2/15/81

Task 3 Ammonia & TOC _____

Fluoride & pH _____

Sulfide _____

Cyanide _____

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Inorganics Traffic Reports (ITR) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the (ITR's).
6. Relate any problems and/or questions concerning SMO procedures or the use of (ITR's) to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Inorganics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-7).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. Where necessary, protect the label from water and solvent attack with clear plastic tape.
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 6, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 5. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each ITR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the ITR in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 8 of the Inorganics Traffic Report (ITR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the ITR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with analysis, recording all pertinent comments on the Inorganics Data Sheets, QC Reports and/or in the narrative section of your Weekly Report.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sampling Management Office
P.O. Box 818, Alexandria, VA 22313-703/557-2490 : FTS/557-2490

Sample Number

MC 8166

INORGANICS TRAFFIC REPORT

① Case Number: 373

Sample Site Name/Code:

Union Carbide
60-23
E3-8101-17

② Sample Type: (Check One)

☐ Run Off
☒ Well Water
☐ Receiving Water
☐ Leachate
☐ Effluent
☐ Other _____
(specify)

ORIGINAL
(Red)

③ Ship To: Versar Inc.

6621 Electronic Dr.
Springfield, Va 22151

Attn:

Nonresponsive based on revised scope

④ Regional Office: 3

Sampling Personnel:

non responsive based on revised scope

(Name)

(Phone) 609 165-1515

Sampling Date:

(Begin) 2/5/81 (End) 2/5/81

⑤ Shipping Information:

Name Of Shipper:

Ecology + Environment Inc

Date Shipped: 2/5/81

Airbill Number: 0129800003

⑥ Description of Sample Location

SC#2 Artesian Water
Co. Well #
3

MATCHES ORGANICS SAMPLE NO. C-0408

⑦ Mark Volume Level On Sample Bottle
Date Sampled

Task 1 & 2 _____

Task 3 Ammonia & TOC _____

Fluoride & pH _____

Sulfide _____

Cyanide _____

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Inorganics Traffic Reports (ITR) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the (ITR's).
6. Relate any problems and/or questions concerning SMO procedures or the use of (ITR's) to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Inorganics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-7).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. **Where necessary, protect the label from water and solvent attack with clear plastic tape.**
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 6, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 5. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each ITR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the ITR in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 8 of the Inorganics Traffic Report (ITR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the ITR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with analysis, recording all pertinent comments on the Inorganics Data Sheets, QC Reports and/or in the narrative section of your Weekly Report.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sampling Management Office

P.O. Box 818, Alexandria, VA 22313-703/557-2490 • FTS/557-2490

INORGANICS TRAFFIC REPORT

Sample Number

MC 8169

① Case Number: 393
Sample Site Name/Code:
Deer Run Pond
NA-27
63-8001-17

② Sample Type: (Check One)

- ☒ Run Off
☐ Well Water
☐ Receiving Water
☐ Leachate
☐ Effluent
☐ Other _____

**ORIGINAL
(Red)**

(specify)

③ Ship To: Vesco Inc.
621 Electronic Drive
Springfield, Va 22151

Attn: **Nonresponsive based on revised scope**

④ Regional Office: 3

Sampling Personnel:

non responsive based on revised scopePhone) 409-668-1515

Sampling Date:

(Begin) 2/5/91 (End) 2/5/91

⑤ Shipping Information:

Name Of Shipper:

Ecology + EnvironmentDate Shipped: 2/5/91Airbill Number: 0179800003

⑥ Description of Sample Location

SL # 4 Northwest
Drainage Pond.MATCHES ORGANICS SAMPLE NO. 6-0411

⑦ Mark Volume Level On Sample Bottle

Date Sampled

Task 1 & 2 2/5/91

Task 3 Ammonia & TOC _____
Fluoride & pH _____
Sulfide _____
Cyanide _____

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Inorganics Traffic Reports (ITR) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the (ITR's).
6. Relate any problems and/or questions concerning SMO procedures or the use of (ITR's) to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Inorganics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-7).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. Where necessary, protect the label from water and solvent attack with clear plastic tape.
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 6, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 5. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each ITR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the ITR in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 8 of the Inorganics Traffic Report (ITR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the ITR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with analysis, recording all pertinent comments on the Inorganics Data Sheets, QC Reports and/or in the narrative section of your Weekly Report.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sar Management Office
P.O. Box 818, Alexandria, VA 22313-703/557-2490 • FTS/557-2490

INORGANICS TRAFFIC REPORT

Sample Number

MC 8170

① Case Number: 1293

Sample Site Name/Code:

Figure 1001-1001
NC-27
F2-8101-17

② Sample Type: (Check One)

☒ Run Off
☐ Well Water
☐ Receiving Water
☐ Leachate
☐ Effluent
☐ Other _____

ORIGINAL
(Red)

(specify)

③ Ship To: Versar Inc.
6621 Electronic Dr.
Springfield, Va 22151

Attn: Nonresponsive based on revised scope

④ Regional Office: 2

Sampling Personnel:

non responsive based on revised scope

Phone: 404-665-1515

Sampling Date:

(Begin) 2/5/81 (End) 2/5/81

⑤ Shipping Information:

Name Of Shipper:

Ecology and Environment

Date Shipped: 2/5/81

Airbill Number: 0179800003

⑥ Description of Sample Location

SL#5; North Swale
Drainage

⑦ Mark Volume Level On Sample Bottle
Date Sampled

Task 1 & 2 2/5/81

Task 3: Ammonia & TOC _____
Fluoride & pH _____
Sulfide _____
Cyanide _____

MATCHES ORGANICS SAMPLE NO. C-0412

REGIONAL OFFICE FILE COPY

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Inorganics Traffic Reports (ITR) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the (ITR's).
6. Relate any problems and/or questions concerning SMO procedures or the use of (ITR's) to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Inorganics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-7).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided.
Where necessary, protect the label from water and solvent attack with clear plastic tape.
4. For samples containing especially hazardous substances, indicate any special handling instructions in the space provided in Item 6, and attach a separate tag bearing the appropriate SMO Sample ID number in addition to the label provided.
5. Fill in shipping information requested in Item 5. Immediately upon sample shipment, be sure to notify SMO of all relevant shipping information including shipping date/time, air carrier, airbill numbers, total number of samples taken and containers shipped, and ETA at the laboratory.
6. Send the first page of each ITR (white copy) to the HWI Sample Management Office in the preposted envelope provided with the report packet. Retain the second page (pink copy) for your files.
7. Insert the remaining two copies (white and yellow) of the ITR in a waterproof Ziploc bag and ship along with the corresponding samples to the designated IFB laboratory.

ANALYSIS LABORATORY DIRECTIONS

1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 8 of the Inorganics Traffic Report (ITR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the ITR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with analysis, recording all pertinent comments on the Inorganics Data Sheets, QC Reports and/or in the narrative section of your Weekly Report.



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sampling Management Office

P.O. Box 818, Alexandria, VA 22313-703/557-2490 • FTS/557-2490

INORGANICS TRAFFIC REPORT

Sample Number

MC 8171

① Case Number: 343
Sample Site Name/Code:
Report 1011 11
DE-27
E2-R001 17

② Sample Type: (Check One)
☐ Run Off
☒ Well Water
☐ Receiving Water
☐ Leachate
☐ Effluent
☐ Other _____
(specify)

**ORIGINAL
(Red)**

③ Ship To: Versar Inc
6621 Electronic Dr.
Springfield, Va
22151

Attn: **Nonresponsive based on revised scope**

④ Regional Office: 3
Sampling Personnel:
non responsive based on revised scope
(none) 604 665-1515
Sampling Date:
(Begin) 7-5-81 (End) 7-5-81

⑤ Shipping Information:
Name Of Shipper:
Ecology & Environment Inc
Date Shipped: _____
Airbill Number: 0179800003

⑥ Description of Sample Location
L#6 Pigron Point
Well #28

MATCHES ORGANICS SAMPLE NO. C-0413

⑦ Mark Volume Level On Sample Bottle
Date Sampled _____
Task 1 & 2 2-5-81
Task 3 Ammonia & TOC _____
Fluoride & pH _____
Sulfide _____
Cyanide _____

GENERAL DIRECTIONS

1. Use only the materials provided to record sample information.
2. Familiarize yourself with all types of information requested of you, and fill in this information completely for each sample taken.
3. Press firmly with ball point pen or pencil, and make sure all information is transferred to carbon pages.
4. Where Inorganics Traffic Reports (ITR) must be mailed, be sure that all sheets are sent to the correct addressee.
5. These instructions, as well as the address and phone number of the HWI Sample Management Office (SMO) are reproduced for your convenience on the back of each page of the (ITR's).
6. Relate any problems and/or questions concerning SMO procedures or the use of (ITR's) to the HWI Sample Management Office at (703) 557-2490.

SAMPLER DIRECTIONS

1. Note that a separate prenumbered Inorganics Traffic Report must be completed for each point sampled during a given site visit.
2. Fill in all information requested relating to an individual sampling point (Items 1-7).
3. Mark volume level on all sample containers, and identify each container using the appropriate pre-printed label provided. Where necessary, protect the label from water and solvent attack with clear plastic tape.
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1. Check condition of all samples and labels on arrival.
2. Fill in information requested in Item 8 of the Inorganics Traffic Report (ITR) and note comments regarding sample condition in Item 9.
3. Send the top sheet of the ITR (white copy) to the HWI Sample Management Office and retain the remaining yellow copy for your files.
4. Proceed with analysis, recording all pertinent comments on the Inorganics Data Sheets, QC Reports and/or in the narrative section of your Weekly Report.

**FEDERAL
EXPRESS**

AIRBILL NUMBER

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS.**ORIGINAL
(Red)**

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

191-5634-6

DATE

2/5/81

TO (Recipient's Name)

nonresponsive based on revised scope

If Hold For Pick-Up or Saturday Delivery,
Recipient's Phone Number

COMPANY

DEPARTMENT/FLOOR NO.

ECOLOGY AND ENVIRONMENT INC.

COMPANY

DEPARTMENT/FLOOR NO.

Versar Inc.

STREET ADDRESS

Federal Express PHL 191

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

6621 Electronic Drive

CITY

STATE

TOWNSHIP PA.

CITY

STATE

Springfield

Va

AIRBILL NO.

0179800003

ZIP ACCURATE ZIP CODE REQUIRED
FOR CORRECT INVOICING

[] [] [] [] [] [] [] [] [] [] [] []

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT
F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL
OR CONSEQUENTIAL DAMAGES ARISING FROM
CARRIAGE HEREOF. F.E.C. DIS-ZIP ACCURATE ZIP CODE REQUIRED
FOR OVERNIGHT DELIVERY

2 2 1 5 1

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

SAM 03810117

PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card☐ Cash In Advance

Account Number/Credit Card Number 2007514

CLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH
RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE
AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH
ON REVERSE OF SHIPPER'S COPY, UNLESS YOU DECLARE A
HIGHER VALUE. THE LIABILITY OF FEDERAL EXPRESS COR-
PORATION IS LIMITED TO \$100.00.

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SERVICES CHECK ONLY ONE BOX		DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED		PIECES	WEIGHT	DECLARED VALUE	O/S
ONE (P-1)		HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE.		1	50		
<input checked="" type="checkbox"/> OVERNIGHT PACKAGES 6 <input type="checkbox"/>		<input type="checkbox"/> DELIVER					
COURIER PAK 7 <input type="checkbox"/>		<input type="checkbox"/> SATURDAY SERVICE REQUIRED See Reverse (Extra charge applies to delivery)					
<input type="checkbox"/> OVERNIGHT ENVELOPE (Up to 2 LBS.) 8 <input type="checkbox"/>		<input type="checkbox"/> RESTRICTED ARTICLES SERVICE (P-1 and Standard Air Packages only, extra charge)					
<input type="checkbox"/> OVERNIGHT BOX (Up to 5 LBS.) 9 <input type="checkbox"/>		<input type="checkbox"/> SSS (Signature Security Service required, extra charge applies)		TOTAL	TOTAL	TOTAL	
<input type="checkbox"/> OVERNIGHT TUBE (Up to 5 LBS.)		<input type="checkbox"/> DRY ICE _____ LBS.		1	50		
STANDARD AIR		<input type="checkbox"/> OTHER SPECIAL SERVICE _____		RECEIVED AT SHIPPER'S DOOR <input type="checkbox"/> REGULAR STOP <input type="checkbox"/> ON-CALL STOP <input checked="" type="checkbox"/> F.E.C. LOC. PHL 191			
<input type="checkbox"/> DELIVERY 2ND BUSINESS DAY FOLLOWING PICK-UP				Federal Express Corporation Employee No. 14262			
				DATE/TIME For Federal Express Use 2/5/81 1915			

"OVERNIGHT" IS DEFINED AS NEXT BUSINESS DAY
(MONDAY THROUGH FRIDAY). SEE SPECIAL
HANDLING FOR SATURDAY DELIVERY.

AGT/PRO	ADVANCE ORIGIN
AGT/PRO	ADVANCE DESTINATION
	OTHER
	TOTAL CHARGES

PART # 2041734049
REVISION DATE 5-15-80
PRINTED USA

SHIPPER'S COPY

1. In tendering the shipment for carriage the shipper agrees to these TERMS AND CONDITIONS OF CONTRACT which no agent or employee of the parties may alter and that this Federal Express Airbill is NON-NEGOTIABLE and has been prepared by him or on his behalf by Federal Express.

2. The shipper agrees that carriage is subject to terms and conditions of contract stated herein and those terms and conditions which are also stated in the most recent Federal Express Service Guide, which is available for inspection and incorporated into this contract by reference.

3. In tendering the shipment for carriage, **THE SHIPPER WARRANTS** that the shipment is packaged adequately to protect the enclosed goods and to insure safe transportation with ordinary care and handling, and that each package is appropriately labeled and is in good order (except as noted) for carriage as specified.

4. When the destination of the shipment is not within the Federal Express air terminal zone as listed in the most recent Federal Express Service Guide, Federal Express makes no commitment with respect to time of delivery of the shipment.

5. In the event of international carriage of any shipment hereunder, the rules relating to liability established by the Convention for the Unification of Certain Rules Relating to International Carriage by Air signed at Warsaw, Poland on October 12, 1929 shall apply to the carriage insofar as the same is governed thereby.

6. Federal Transportation Excise Tax. Pursuant to Section 4271 of the Internal Revenue Code, a 5% tax on air transportation portion of the service and the accessorial services related thereto is included within the basic rate.

7. **DECLARED VALUE AND LIMITATION OF LIABILITY. THE LIABILITY OF FEDERAL EXPRESS IS LIMITED TO THE SUM OF \$100.00** unless a higher value is declared for carriage herein and a greater charge paid at the rate of 30¢ per \$100.00 value. In the case of P-1 service the maximum higher declared value is \$5000.00. In the case of Courier Pak, or Standard Air Service, the maximum higher declared value is \$2,000.00. Shipments containing items of extraordinary value, including, but not limited to, drawings, paintings, sculptures, porcelain, ceramics, furs, jewelry, fur trimmed clothing, watches, gems, stones, money, bullion, currency, coins, trading stamps, or other extraordinary valuable items, are limited to a maximum declared value of \$500.00. In the case of P-1 service when multiple shipments are placed on a single airbill but the shipper has not specified the declared value of each individual shipment, the declared value for each individual shipment will be determined by dividing the total declared value on the airbill by the number of shipments indicated on the airbill, subject to a \$100.00 minimum declared value per individual shipment. In the case of Standard Air Service, when the shipment consists of two or more pieces, the declared value for each piece will be determined by dividing the declared value on the airbill by the number of pieces in the shipment. The liability of Federal Express is limited to the declared value of the shipment or the amount of loss or damage actually sustained, whichever is lower.

Federal Express is not liable for loss, damage, delay, mis-delivery or non-delivery not caused by its own negligence or any loss, damage, delay, mis-delivery or non-delivery caused by the act, default or omission of the shipper, consignee, or any other party who claims interest in the shipment, the nature of the shipment or any defect, characteristic of inherent vice thereof; violation by the shipper or consignee of any of the conditions of contract contained in this airbill or in the Federal Express

Service Guide, including, but not limited to, improper or insufficient packing, securing, marking or addressing, or failure to observe any of the rules relating to shipments not acceptable for transportation or shipments acceptable only under certain conditions; acts of God, perils of the air, public enemies, public authorities acting with actual or apparent authority of law, acts or omissions of customs or quarantine officials, riots, strikes or other local disputes, civil commotions, hazards incident to a state of war, weather conditions or mechanical delay of the aircraft or acts or omissions of any person other than FEC, including compliance with delivery instructions from the shipper or consignee. FEC shall not be liable for the loss of articles loaded and sealed in packages by the shipper provided the seal is unbroken at the time of delivery and the package retains its basic integrity. **FEDERAL EXPRESS SHALL NOT BE LIABLE IN ANY EVENT FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR INCOME WHETHER OR NOT FEDERAL EXPRESS HAD KNOWLEDGE THAT SUCH DAMAGES MIGHT BE INCURRED.**

8. **CLAIMS. WRITTEN NOTICE OF LOSS DUE TO DAMAGE, SHORTAGE OR DELAY MUST BE REPORTED BY THE SHIPPER WITHIN 15 DAYS AFTER THE DELIVERY OF THE SHIPMENT. WRITTEN NOTICE OF LOSS DUE TO NON-DELIVERY MUST BE REPORTED BY THE SHIPPER WITHIN 90 DAYS AFTER ACCEPTANCE OF THE SHIPMENT OR CARRIAGE.** Written notification will be considered to have been made if the shipper calls and notifies the Customer Services Department at 800/238-5355 (in Tennessee 800/542-5171) and as soon as practicable thereafter files a written notification. Documentation of all claims other than overcharge claims must be submitted in writing to FEC within ninety (90) days after receipt of written notification. No claim for damage will be entertained until all transportation charges have been paid. The amount of a claim may not be deducted from the transportation charges. Receipt of the shipment by the consignee without written notification of damage on the delivery receipt shall be prima facie evidence that the shipment was delivered in good condition, except that in the case of claims for concealed damage which is not discovered at the time of delivery, the shipper shall notify FEC in writing as promptly as possible after the discovery thereof at any event not later than 15 days from the date of delivery. The shipper must the original shipping cartons and packing available for inspection by FEC. C. for overcharges and refunds must be made in writing to FEC within twelve (12) months of the billing date. All claims must be filed by the shipper.

9. All shipments are subject to inspection by FEC, including but not limited to, opening the shipment. However, FEC is not obligated to perform such inspection.

10. C.O.D. services are not available and a C.O.D. shipment sent in error will be delivered as a normal pre-paid or collect shipment.

11. Federal Express carries no cargo liability insurance but maintains a separate fund for the satisfaction of cargo claims which may arise out of the carriage of cargo pursuant to the conditions of contract contained herein and in the most recent Federal Express Service Guide.

12. Notwithstanding the shipper's instructions to the contrary, the shipper shall be primarily liable for all costs and expenses related to the shipment of the package, and for costs incurred in either returning the shipment to the shipper or warehousing the shipment pending disposition.

**FEDERAL
EXPRESS**

AIRBILL NUMBER

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS.

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

191-5634-6

DATE

2/5/81

**ORIGINAL
(Red)**

FROM (Your Name)

ECOLOGY AND ENVIRONMENT INC.

non responsive based on revised scope

DEPARTMENT/FLOOR NO.

TO (Recipient's Name)

Nonresponsive based on revised scope

If Hold For Pick-Up or Saturday Delivery,
Recipient's Phone Number

DEPARTMENT/FLOOR NO.

West Coast Technical Service, Inc.

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

17605 Fabrice Way

Suite 11

STREET ADDRESS

Federal Express PHL 191

CITY

FOLCROFT PA.

STATE

CITY

Cerritos.

STATE

Ca

AIRBILL NO. 0179799992

ZIP ACCURATE ZIP CODE REQUIRED
FOR CORRECT DELIVERYIN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT
F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM
CARRIAGE HEREOF. F.E.C. DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH
RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE
AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH
ON REVERSE OF SHIPPER'S COPY, UNLESS YOU DECLARE A
HIGHER VALUE. THE LIABILITY OF FEDERAL EXPRESS CORPORATION IS LIMITED TO \$100.00.ZIP ACCURATE ZIP CODE REQUIRED
FOR OVERNIGHT DELIVERY

910701

YOUR NOTES/REFERENCE NUMBERS (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

SAM 038101-17

PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card☐ Cash In Advance

Account Number/Credit Card Number

2007514

FEDERAL EXPRESS USE

FREIGHT CHARGES

DECLARED VALUE CHARGE

SERVICES

CHECK ONLY ONE BOX

DELIVERY AND SPECIAL HANDLING

CHECK SERVICES REQUIRED

PIECES

WEIGHT

DECLARED
VALUE

O/S

PRIORITY ONE (P-1)

1 ☒ OVERNIGHT (PACKAGES) 6 ☐COURIER PAK 7 ☐2 ☐ OVERNIGHT ENVELOPE (up to 2 LBS.) 8 ☐3 ☐ OVERNIGHT BOX (up to 5 LBS.) 9 ☐4 ☐ OVERNIGHT TUBE (up to 5 LBS.)

STANDARD AIR

5 ☐ DELIVERY 2ND BUSINESS DAY FOLLOWING PICK UP1 ☐ HOLD FOR PICK-UP AT FOLLOWING
FEDERAL EXPRESS LOCATION SHOWN
IN SERVICE GUIDE.2 ☒ DELIVER3 ☐ SATURDAY SERVICE REQUIRED
(See Reverse (Extra charge applies for delivery))4 ☐ RESTRICTED ARTICLES SERVICE (P-1) and
Standard Air Packages only, extra charge)5 ☐ SSS (Signature Security Service
required, extra charge applies)6 ☐ DRY ICE _____ LBS.7 ☐ OTHER SPECIAL SERVICE _____8 ☐9 ☐

3

70

70

70

TOTAL

3

210

TOTAL

RECEIVED AT

SHIPPER'S DOOR

☐ REGULAR STOP☐ ON-CALL STOP

F.E.C. LOC. PHL PA.

Federal Express Corporation Employee No.

14262

DATE/TIME For Federal Express Use

2/5/81 1915

AGT/PRO

ADVANCE ORIGIN

AGT/PRO

ADVANCE DESTINATION

OTHER

TOTAL CHARGES

PART # 2041734049

REVISION DATE 5-15-80

PRINTED USA



SHIPPER'S COPY

"OVERNIGHT" IS DEFINED AS NEXT BUSINESS DAY
(MONDAY THROUGH FRIDAY). SEE SPECIAL
HANDLING FOR SATURDAY DELIVERY.

1. In tendering the shipment for carriage the shipper agrees to these TERMS AND CONDITIONS OF CONTRACT which no agent or employee of the parties may alter and that this Federal Express Airbill is NON-NEGOTIABLE and has been prepared by him or on his behalf by Federal Express.

2. The shipper agrees that carriage is subject to terms and conditions of contract stated herein and those terms and conditions which are also stated in the most recent Federal Express Service Guide, which is available for inspection and incorporated into this contract by reference.

3. In tendering the shipment for carriage, THE SHIPPER WARRANTS that the shipment is packaged adequately to protect the enclosed goods and to insure safe transportation with ordinary care and handling, and that each package is appropriately labeled and is in good order (except as noted) for carriage as specified.

4. When the destination of the shipment is not within the Federal Express air terminal zone as listed in the most recent Federal Express Service Guide, Federal Express makes no commitment with respect to time of delivery of the shipment.

5. In the event of international carriage of any shipment hereunder, the rules relating to liability established by the Convention for the Unification of Certain Rules Relating to International Carriage by Air signed at Warsaw, Poland on October 12, 1929 shall apply to the carriage insofar as the same is governed thereby.

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Federal Express is not liable for loss, damage, delay, mis-delivery or non-delivery not caused by its own negligence or any loss, damage, delay, mis-delivery or non-delivery caused by the act, default or omission of the shipper, consignee, or any other party who claims interest in the shipment, the nature of the shipment or any defect, characteristic of inherent vice thereof; violation by the shipper or consignee of any of the conditions of contract contained in this airbill or in the Federal Express

Service Guide, including, but not limited to, improper or insufficient packing, securing, marking or addressing, or failure to observe any of the rules relating to shipments not acceptable for transportation or shipments acceptable only under certain conditions, acts of God, perils of the air, public enemies, public authorities acting with actual or apparent authority, authority of law, acts or omissions of customs or quarantine officials, riots, strikes or other local disputes, civil commotions, hazards incident to a state of war, weather conditions or mechanical delay of the aircraft or acts or omissions of any person other than FEC. Including compliance with delivery instructions from the shipper or consignee. FEC shall not be liable for the loss of articles loaded and sealed in packages by the shipper provided the seal is unbroken at the time of delivery and the package retains its basic integrity. **FEDERAL EXPRESS SHALL NOT BE LIABLE IN ANY EVENT FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR INCOME WHETHER OR NOT FEDERAL EXPRESS HAD KNOWLEDGE THAT SUCH DAMAGES MIGHT BE INCURRED.**

8. **CLAIMS. WRITTEN NOTICE OF LOSS DUE TO DAMAGE, SHORTAGE OR DELAY MUST BE REPORTED BY THE SHIPPER WITHIN 15 DAYS AFTER THE DELIVERY OF THE SHIPMENT. WRITTEN NOTICE OF LOSS DUE TO NON-DELIVERY MUST BE REPORTED BY THE SHIPPER WITHIN 90 DAYS AFTER ACCEPTANCE OF THE SHIPMENT OR CARRIAGE.** Written notification will be considered to have been made if the shipper calls and notifies the Customer Services Department at 800/238-5355 (in Tennessee 800/542-5171) and as soon as practicable thereafter files a written notification. Documentation of all claims other than overcharge claims must be submitted in writing to FEC within ninety (90) days after receipt of written notification. No claim for damage will be entertained until all transportation charges have been paid. The amount of a claim may not be deducted from the transportation charges. Receipt of the shipment by the consignee without written notification of damage on the delivery receipt shall be prima facie evidence that the shipment was delivered in good condition, except that in the case of claims for concealed damage which is not discovered at the time of delivery, the shipper shall notify FEC in writing as promptly as possible after the discovery thereof at any event not later than 15 days from the date of delivery. The shipper must make the original shipping cartons and packing available for inspection by FEC. Claims for overcharges and refunds must be made in writing to FEC within twelve (12) months of the billing date. All claims must be filed by the shipper.

9. All shipments are subject to inspection by FEC, including but not limited to, opening the shipment. However, FEC is not obligated to perform such inspection.

10. C.O.D. services are not available and a C.O.D. shipment sent in error will be delivered as a normal pre-paid or collect shipment.

11. Federal Express carries no cargo liability insurance but maintains a separate fund for the satisfaction of cargo claims which may arise out of the carriage of cargo pursuant to the conditions of contract contained herein and in the most recent Federal Express Service Guide.

12. Notwithstanding the shipper's instructions to the contrary, the shipper shall be primarily liable for all costs and expenses related to the shipment of the package, and for costs incurred in either returning the shipment to the shipper or warehousing the shipment pending disposition.

ORIGINAL
(Red)

Pigeon Point L.F.

A1 Madora 302 - 366 - 7800

Ray Trout 571 - 7875

Lee Moon - Wednesday

First 9 North

3rd light Rt

Lambson Lane follow to dead
end

9:00. Wednesday 14th

~~Hot~~

ORIGINAL
(Red)SOURCE DATA: Please complete as fully as possible all irrigation systems

1. Withdrawal Number
2. Well depth (feet)
3. Well casing length (feet)
4. Casing diameter (inches)
5. Screen interval (feet)
6. Gravel pack
7. Cement grouted
8. Yield (gpm)
9. Specific capacity (gal/min/ft)
10. Name of aquifer or pond or stream
11. Driller
12. Date drilled
13. Water level access
14. Metering
15. Permit information
16. Two Road locations

8	9	10	11	12	
(b) (9)					
(b) (9)(b) (9)					
Columbia	Columbia*	Columbia*	Columbia*	Lower Potomac	
"non responsive based on revised scope"					
12/17/46	9/28/49	10/8/48	4/16/52	1972	
				WR-6-1035/72	

Cd-43-5

Cd43-3

CD43-4

CD43-11

Same location as
test hole #28
Cd44-1

Office use only:

*Pumpage over Potomac Subcrop

III-DE-81017-8-81-012

Project No. F3-8101-17Project Location Pigeon Point, DelawareFIT Team Region III etcDate February 05 1981Signature "non responsive based on revised scope"

DOCUMENT TYPE	DOCUMENT NUMBER	SIGNED?	DATED?	RECORDED IN INK?	ERRORS PROPERLY CORRECT?	ALL BLANKS COMPLETED?	REMARKS
sample tag	3-1253 Well #1A	✓	✓	✓	✓	✓	priority pollutants
sample tag	3-1256 Well #4A	✓	✓	✓	✓	✓	priority pollutants / Volatile organics
sample tag	3-1254 Well #1A	✓	✓	✓	✓	✓	priority pollutants
sample tag	3-1255 Well #1A	✓	✓	✓	✓	✓	priority pollutants
sample tag	3-1257 Well #1A	✓	✓	✓	✓	✓	priority pollutants
sample tag	3-1203 Well #3	✓	✓	✓	✓	✓	priority pollutants
sample tag	3-1244 Well #3	✓	✓	✓	✓	✓	priority pollutants
sample tag	3-1245 Well #3	✓	✓	✓	✓	✓	priority pollutant
sample tag	3-1202 Well #3	✓	✓	✓	✓	✓	priority pollutant
sample tag	3-1205 Well #3	✓	✓	✓	✓	✓	priority pollutant
sample tag	3-1204 Well #3	✓	✓	✓	✓	✓	P.P.
sample tag	3-1248 Well #9	✓	✓	✓	✓	✓	P.P. & Volatile Organics
sample tag	3-1246 Well #9	✓	✓	✓	✓	✓	P.P.
sample tag	3-1247 Well #9	✓	✓	✓	✓	✓	P.P.
sample tag	3-1249 Well #9	✓	✓	✓	✓	✓	P.P.
sample tag	3-1250 Well #9	✓	✓	✓	✓	✓	P.P. & V.O.

EVIDENCE AUDIT DOCUMENT CHECKLIST

Project No. F3-8101-17

Project Location Pidgeon Pt. Colborne

Date 2/5/81

non responsive based on revised scope

AT Team non responsive based on revised scope

Signature

Document Type	Document No.	Is the document signed	Is the document dated	Are recordings in ink	Are errors properly corrected	Are all blanks completed	Remarks
Simple Receipt (of C report)	3-0208	Yes		Yes	—	Yes	
Sample Tag	MC-5172 3-1231	Yes	Yes	Yes	No errors	Yes	S.L. #27
"	MC-5173 3-1235	Yes	Yes	Yes	No errors	Yes	#8
"	C-0415 3-1232	Yes	Yes	Yes	No errors	Yes	#8
"	C-0415 3-1233	Yes	Yes	Yes	No errors	Yes	#8
"	3-1235	Yes	Yes	Yes	No errors	Yes	#8
"	3-1234 C-0415	Yes	Yes	Yes	No errors	Yes	#8
"	C-0414 3-1274	Yes	Yes	Yes	No errors	Yes	#7
"	C-0414 3-1279	Yes	Yes	Yes	No errors	Yes	#7
"	C-0414 3-1277	Yes	Yes	Yes	No errors	Yes	#7
"	C-0414 3-1276	Yes	Yes	Yes	No errors	Yes	#7
"	C-0415 3-1286	Yes	Yes	Yes	No errors	Yes	#5 Contains 2 bottles
"	C-0414 3-1280	Yes	Yes	Yes	No errors	Yes	#7 Contains 2 bottles
Emergency Traffic Report	Well #9 S.L. #2 C-0109	No signature required	Yes	Yes	No errors	Yes	Well Cons. Technical Case #27 A.B.-017777992
Emergency Traffic Report	MC-5162	No signature required	Yes	Yes	No errors	Yes	Well #1A S.L. #3

ORIGINAL

ORIGINAL
(Red)

8101-17-5

PIBEOH DONT LANDFILL
F3-8101-17 DE-27

PHOTO PROCESSING RECORD

non responsive based on revised scope

Person who took photos:

Signature:

Person who removed film from camera: Name:

Date: 2/12/81

Signature:

(pay)
TUESDAY

Person who took film to the processor: Name:

Date: 2/12/81

Signature:

Name of Processor:

Person who picked up processed photos: Name:

Date: 2/19/81

Signature:

Person who took photos receives processed photos for labelling purposes:

Name:

Date: 2/19/81

Signature:

If SITL did not take pictures:

SITL accepts final custody of photos for Master File:

Name:

Date: 2/23/81

Signature:

8101-17-6

INORGANIC
BLANK

☆GPO 1980-678-161

Project Code 03-8101-17	Station No. C-0413	Month/Day/Year	Time	Designate: Grab	Preservative: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
					ANALYSES		
Station Location SE #8. outfall perimeter leachate collection system					BOD	Anions	
					Solids	(TSS) (TDS) (SS)	
					COD, TOC, Nutrients		
					Phenolics		
					Mercury		
					Metals		
					Cyanide		
					Oil and Grease		
					Organics GC/MS		
					Priority Pollutants		+
					Volatile Organics		+
					Pesticides		
					Mutagenicity		
					Bacteriology		
Remarks:							
Tag No.					Lab Sample No.		
3-1287							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 3

**Curtis Bldg., 6th & Walnut Streets
Philadelphia, Pennsylvania 19106**

